

October 31, 2005

Fluid Minerals Group  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078

RE: Application for Permit to Drill—Dominion Exploration & Production, Inc.  
**HCU 11-33F:**

*Surface Location:* 1,996' FSL & 393' FWL NW/4 SW/4  
*Target Location:* 1,995' FSL & 1,680' FWL NE/4 SW/4  
Section 33, T10S, R20E, SLB&M, Uintah County, Utah

Dear Fluid Minerals Group:

On behalf of Dominion Exploration & Production, Inc. (Dominion), Buys & Associates, Inc. respectfully submits the enclosed original and two copies of the Application for Permit to Drill (APD) for the above referenced BLM well. A request for exception to spacing (R649-3-11) is hereby requested based on topography since the well is located within 460' of the drilling unit boundary. Dominion Exploration & Production, Inc. is the only owner and operator within 460' of the proposed well and all points along the intended well bore path. Included with the APD is the following supplemental information:

- Exhibit "A" - Survey plats, layouts and photos of the proposed well site;
- Exhibit "B" - Proposed location maps with access and utility corridors;
- Exhibit "C" - Production site layout;
- Exhibit "D" - Drilling Plan;
- Exhibit "E" - Surface Use Plan;
- Exhibit "F" - Typical BOP and Choke Manifold diagram.

Please accept this letter as Dominion's, written request for confidential treatment of all information contained in and pertaining to this application.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Carla Christian of Dominion at 405-749-5263 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*  
Don Hamilton  
Agent for Dominion

cc: Diana Whitney, Division of Oil, Gas and Mining  
Carla Christian, Dominion

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DIV. OF OIL, GAS & MINING

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. U-28203
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Dominion Exploration & Production, Inc.		7. If Unit or CA Agreement, Name and No. Hill Creek Unit
3a. Address 14000 Quail Springs Parkway, Suite 600 Oklahoma City, OK 73134		8. Lease Name and Well No. HCU 11-33F
3b. Phone No. (include area code) 405-749-5263		9. API Well No. 43-047-37360
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1,996' FSL & 393' FWL NW/4 SW/4 At proposed prod. zone 1,995' FSL & 1,680' FWL NE/4 SW/4		10. Field and Pool, or Exploratory Natural Buttes
11. Distance in miles and direction from nearest town or post office* 12.89 miles southwest of Ouray, Utah		11. Sec., T. R. M. or Blk. and Survey or Area Section 33, T10S, R20E, SLB&M
12. County or Parish Utah	13. State UT	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 393'	16. No. of acres in lease 1,880 acres	17. Spacing Unit dedicated to this well 40 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 25'	19. Proposed Depth 8,050' TVD (8,318' MD)	20. BLM/BIA Bond No. on file 76S 63050 0330
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,301 GR	22. Approximate date work will start* 02/01/2006	23. Estimated duration 14 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature <i>Don Hamilton</i>	Name (Printed/Typed) Don Hamilton	Date 10/31/2005
Title Agent for Dominion		
Approved by Signature <i>Bradley G. Hill</i>	Name (Printed/Typed) BRADLEY G. HILL	Date 11-07-05
Title ENVIRONMENTAL SCIENTIST III		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

Surf 613040X  
4417497Y  
39.901945  
-109.677663

Federal Approval of this  
Action Is Necessary

BHL 613434X  
4417507Y  
39.901946  
-109.673059

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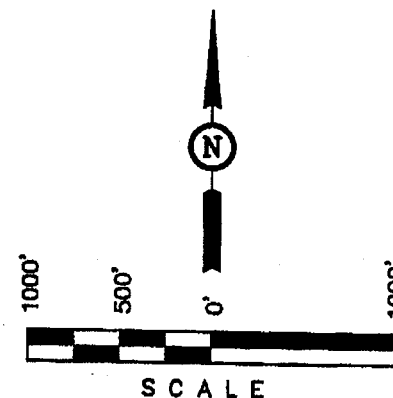
# T10S, R20E, S.L.B.&M.

## DOMINION EXPLR. & PROD., INC.

Well location, HCU #11-33F, located as shown in the NW 1/4 SW 1/4 of Section 33, T10S, R20E, S.L.B.&M. Uintah County Utah.

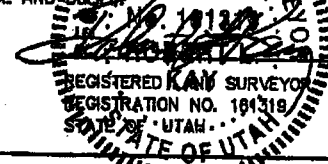
### BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.



### CERTIFICATE

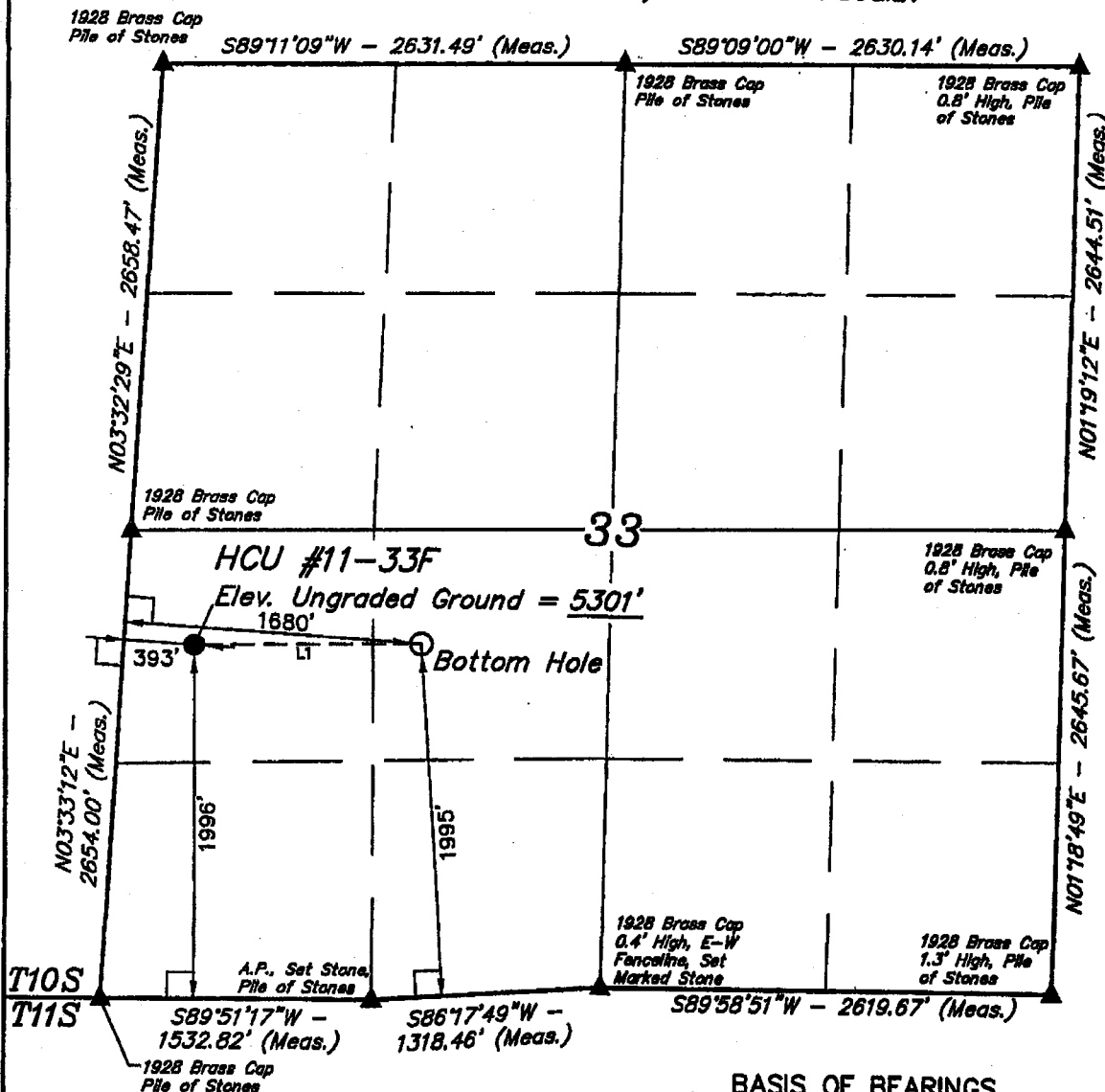
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Revised: 9-27-05  
Revised: 6-7-05

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 3-7-05	DATE DRAWN: 3-16-05
PARTY B.B. J.M. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE DOMINION EXPLR. & PROD., INC	



### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)  
LATITUDE = 39°54'06.76" (39.901878)  
LONGITUDE = 109°40'42.11" (109.678364)  
(NAD 27)  
LATITUDE = 39°54'06.89" (39.901914)  
LONGITUDE = 109°40'39.62" (109.677672)

### LINE TABLE

LINE	DIRECTION	LENGTH
L1	N88°57'14"E	1291.02'

### LEGEND:

- └ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

## DRILLING PLAN

### APPROVAL OF OPERATIONS

#### Attachment for Permit to Drill

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** HCU 11-33F  
SHL: 1996' FSL & 393' FWL Section 33-10S-20E  
BHL: 1995' FSL & 1680' FWL Section 33-10S-20E  
Uintah County, UT

1. GEOLOGIC SURFACE FORMATION Uintah

2. ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS

<u>Formation</u>	<u>Depth</u>
Wasatch Tongue	3,565'
Uteland Limestone	3,935'
Wasatch	4,095'
Chapita Wells	4,995'
Uteland Buttes	6,245'
Mesaverde	7,170'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>Formation</u>	<u>Depth</u>	<u>Type</u>
Wasatch Tongue	3,565'	Oil
Uteland Limestone	3,935'	Oil
Wasatch	4,095'	Gas
Chapita Wells	4,995'	Gas
Uteland Buttes	6,245'	Gas
Mesaerde	7,170	Gas

4. PROPOSED CASING PROGRAM

All casing used to drill this well will be new casing.

<u>Type</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Top</u>	<u>Bottom</u>	<u>Hole</u>
Surface	13-3/8"	48.0 ppf	H-40	STC	0'	500'	17-1/2"
Intermediate	9-5/8"	36.0 ppf	J-55	LTC	0'	2,800'	12-1/4"
Production	5-1/2"	17.0 ppf	MAV-80	LTC	0'	8,050'	7-7/8"

5. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Surface hole: No BOPE will be utilized.

Intermediate hole: To be drilled using a diverter stack with rotating head to divert flow from rig floor.

Production hole: Prior to drilling out the intermediate casing shoe, 3,000 psi or greater BOP equipment will be installed.

The pipe rams will be operated at least once per day from intermediate casing to total depth. The blind rams will be tested once per day from intermediate casing to total depth if operations permit.

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## DRILLING PLAN

### APPROVAL OF OPERATIONS

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 3,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling below the intermediate casing shoe. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	3,000 psi
3.	Kill line valves	3,000 psi
4.	Choke line valves and choke manifold valves	3,000 psi
5.	Chokes	3,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	3,000 psi
8.	Dart valve	3,000 psi

#### 6. MUD SYSTEMS

- An air or an air/mist system may be used to drill to drill the surface hole until water influx becomes too great.
- KCL mud system will be used to drill well.

<u>Depths</u>	<u>Mud Weight (ppg)</u>	<u>Mud System</u>
0' - 500'	8.4	Air foam mist, no pressure control
500' - 2,800'	8.6	Fresh water, rotating head and diverter
2,800' - 8,050'	8.6	Fresh water/2% KCL/KCL mud system

#### 7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a contant ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 100' from the wellhead.

#### 8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string.

#### 9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- A drillstem test in the Wasatch Tongue is possible.
- One electric line wire-log will be run from total depth to intermediate casing.
- The gamma ray will be left on to record from total depth to intermediate casing.
- Other log curves (resistivities, porosity, and caliper) will record from total depth to intermediate casing.
- A dipmeter, percussion cores, or rotary cores may be run over selected intervals.

#### 10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- Expected BHP 1,500-2,000 psi (lower than normal pressure gradient).
- No abnormal temperature or pressures are anticipated.
- The formations to be penetrated do not contain known H<sub>2</sub>S gas.

#### 11. WATER SUPPLY

- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.
- Water will be hauled from: Water Permit # 43-10447 Section 9, Township 8 South, Range 20 East

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## DRILLING PLAN

### APPROVAL OF OPERATIONS

#### 12. CEMENT SYSTEMS

##### a. Surface Cement:

Drill 17-1/2" hole to 500' and cement 13-3/8" to surface with 450 sks class "C" cement with 2% CaCl<sub>2</sub> and 1/4 #/sk. Poly-E-Flakes (volume includes 40% excess). Top out if necessary with Top Out cement listed below.

##### b. Intermediate Casing Cement:

- Drill 12-1/4" hole to 2,800'±, run and cement 9-5/8" to surface.
- Pump 20 bbls lightly weighted water spacer followed by 5 bbls fresh water. Displace with any available water.
- Casing to be run with: a) guide shoe b) insert float c) three (3) centralizers, one on each of first 3 joints d) stop ring for plug two joints off bottom e) bottom three joints thread locked f) pump job with bottom plug only.
- Cement to surface not required due to surface casing set deeper than normal.

Type	Sacks	Interval	Density	Yield	Hole Volume	Cement Volume	Excess
Lead	300	0'-2,000'	11.0 ppg	3.82 CFS	658 CF	1,152 CF	75%
Tail	390	2,000'-2,800'	15.6 ppg	1.20 CFS	268 CF	469 CF	75%

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.82 cf/sack Slurry weight: 11.00 #/gal.  
Water requirement: 22.95 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.  
Pump Time: 1 hr. 5 min. @ 90 °F.  
Compressives @ 95 °F: 24 Hour is 4,700 psi

##### c. Production Casing Cement:

- Drill 7-7/8" hole to 8,050'±, run and cement 5 1/2".
- Cement interface is at 3,700', which is typically 500'-1,000' above shallowest pay.
- Pump 20 bbl Mud Clean II unweighted spacer, followed by 20 Bbls fresh H2O spacer.
- Displace with 3% KCL.

Type	Sacks	Interval	Density	Yield	Hole Volume	Cement Volume	Excess
Lead	90	3,700'-4,500'	11.5 ppg	3.12 CFS	139 CF	277 CF	100%
Tail	600	4,500'-8,050'	13.0 ppg	1.75 CFS	525 CF	1050 CF	100%

Note: Caliper will be run to determine exact cement volume.

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.12 cf/sack Slurry weight: 11.60 #/gal.  
Water requirement: 17.71 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Halliburton HLC blend (Prem Plus V/JB flyash). Blend includes Class "G" cement, KCl, EX-1, Halad 322, & HR-5.  
Slurry yield: 1.75 cf/sack Slurry weight: 13.00 #/gal.  
Water requirement: 9.09 gal/sack  
Compressives @ 165°F: 905 psi after 24 hours

#### 13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

Starting Date: February 1, 2006  
Duration: 14 Days

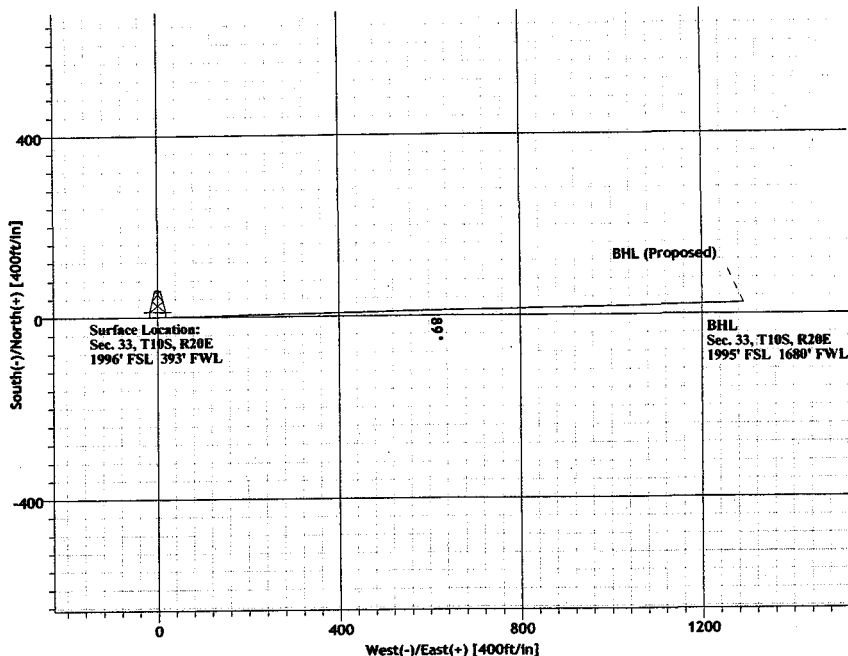
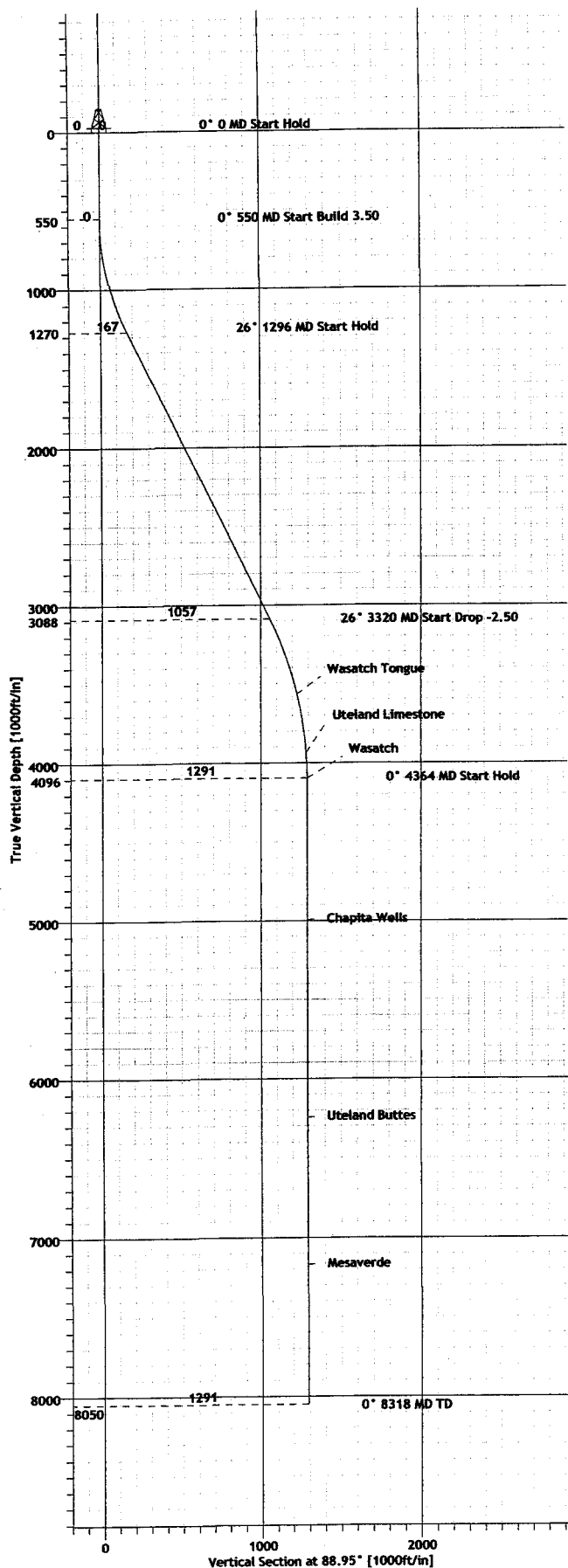
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Plan #1

Dominion E &amp; P

Well: HCU 11-33F  
Field: Hill Creek Unit  
Uintah Co. Utah  
Sec. 33, T10S, R20E



## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	88.95	0.00	0.00	0.00	0.00	0.00	0.00	
2	550.00	0.00	88.95	550.00	0.00	0.00	0.00	88.95	0.00	
3	1295.70	26.10	88.95	1270.17	3.05	166.90	3.50	88.95	166.92	
4	3319.66	26.10	88.95	3087.76	19.30	1057.15	0.00	0.00	1057.32	
5	4363.63	0.00	88.95	4096.00	23.57	1290.80	2.50	180.00	1291.02	
6	8317.63	0.00	88.95	8050.00	23.57	1290.80	0.00	88.95	1291.02	

## WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slor
HCU 11-33F	0.00	0.00	7138200.96	2151419.08	39°54'06.760N	109°40'42.110W	N/A

## FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3565.00	3827.76	Wasatch Tongue
2	3935.00	4202.50	Uteland Limestone
3	4095.00	4362.63	Wasatch
4	4995.00	5262.63	Chapita Wells
5	6245.00	6512.63	Uteland Buttes
6	7170.00	7437.63	Mesaverde

## WELLPATH DETAILS

1			
Rig:	est.KB @ 5315'		0.00ft
Ref. Datum:			
V.Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
88.95°	0.00	0.00	0.00

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Centre HCU 11-33F, True North  
Vertical (TVD) Reference: est.KB @ 5315' 0.00  
Section (VS) Reference: Site Centre (0.00N,0.00E)  
Measured Depth Reference: est.KB @ 5315' 0.00  
Calculation Method: Minimum Curvature



Azimuths to True North  
Magnetic North: 11.85°

Magnetic Field  
Strength: 52864nT  
Dip Angle: 65.90°  
Date: 10/27/2005  
Model: igr2005

## FIELD DETAILS

Natural Buttes Field  
Uintah County, Utah  
USA

Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igr2005

System Datum: Mean Sea Level  
Local North: True North

## SITE DETAILS

HCU 11-33F  
Hill Creek Unit  
Sec. 33, T10S, R20E

Site Centre Latitude: 39°54'06.760N  
Longitude: 109°40'42.110W

Ground Level: 5299.00  
Positional Uncertainty: 0.00  
Convergence: 1.17

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# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 11-33F  
Well: HCU 11-33F  
Wellpath: 1

Date: 10/27/2005 Time: 11:23:45  
Co-ordinate(NE) Reference: HCU 11-33F, True North  
Vertical (TVD) Reference: est.KB @ 5315' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,88.95Azi)  
Plan: Plan #1

Page: 1

Field: Natural Buttes Field  
Uintah County, Utah  
USA

Map System: US State Plane Coordinate System 1983  
Geo Datum: GRS 1980  
Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
Coordinate System: Site Centre  
Geomagnetic Model: igrf2005

Site: HCU 11-33F  
Hill Creek Unit  
Sec. 33, T10S, R20E

Site Position:  
From: Geographic  
Position Uncertainty: 0.00 ft  
Ground Level: 5299.00 ft

Northing: 7138200.96 ft  
Easting: 2151419.08 ft

Latitude: 39 54 6.760 N  
Longitude: 109 40 42.110 W  
North Reference: True  
Grid Convergence: 1.17 deg

Well: HCU 11-33F

Slot Name:

Surface Position: +N/-S 0.00 ft  
+E/-W 0.00 ft  
Position Uncertainty: 0.00 ft  
Reference Point: +N/-S 0.00 ft  
+E/-W 0.00 ft

Northing: 7138200.96 ft  
Easting: 2151419.08 ft  
Northing: 7138200.96 ft  
Easting: 2151419.08 ft  
Measured Depth: 0.00 ft  
Vertical Depth: 0.00 ft

Latitude: 39 54 6.760 N  
Longitude: 109 40 42.110 W  
Latitude: 39 54 6.760 N  
Longitude: 109 40 42.110 W  
Inclination: 0.00 deg  
Azimuth: 0.00 deg

Wellpath: 1

Current Datum: est.KB @ 5315'  
Magnetic Data: 10/27/2005  
Field Strength: 52864 nT  
Vertical Section: Depth From (TVD)  
ft

Height 0.00 ft

+N/-S  
ft

Drilled From: Well Ref. Point  
Tie-on Depth: 0.00 ft  
Above System Datum: Mean Sea Level  
Declination: 11.85 deg  
Mag Dip Angle: 65.90 deg  
+E/-W  
ft  
Direction  
deg

0.00

0.00

0.00

88.95

Plan: Plan #1

Date Composed: 10/27/2005  
Version: 1  
Tied-to: From Well Ref. Point

Principal: Yes

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	88.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	88.95	550.00	0.00	0.00	0.00	0.00	0.00	88.95	
1295.70	26.10	88.95	1270.17	3.05	166.90	3.50	3.50	0.00	88.95	
3319.66	26.10	88.95	3087.76	19.30	1057.15	0.00	0.00	0.00	0.00	
4363.63	0.00	88.95	4096.00	23.57	1290.80	2.50	-2.50	0.00	180.00	
8317.63	0.00	88.95	8050.00	23.57	1290.80	0.00	0.00	0.00	88.95	

### Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	88.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	88.95	100.00	0.00	0.00	0.00	0.00	0.00	0.00	88.95
200.00	0.00	88.95	200.00	0.00	0.00	0.00	0.00	0.00	0.00	88.95
300.00	0.00	88.95	300.00	0.00	0.00	0.00	0.00	0.00	0.00	88.95
400.00	0.00	88.95	400.00	0.00	0.00	0.00	0.00	0.00	0.00	88.95
500.00	0.00	88.95	500.00	0.00	0.00	0.00	0.00	0.00	0.00	88.95
550.00	0.00	88.95	550.00	0.00	0.00	0.00	0.00	0.00	0.00	88.95

### Section 2 : Start Build 3.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
600.00	1.75	88.95	599.99	0.01	0.76	0.76	3.50	3.50	0.00	0.00
700.00	5.25	88.95	699.79	0.13	6.87	6.87	3.50	3.50	0.00	0.00

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# Ryan Energy Technologies Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 11-33F  
Well: HCU 11-33F  
Wellpath: 1

Date: 10/27/2005 Time: 11:23:45  
Co-ordinate(NE) Reference: HCU 11-33F, True North  
Vertical (TVD) Reference: KB @ 5315' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,88.95Azi)  
Plan: Plan #1

Page: 2

## Section 2 : Start Build 3.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
800.00	8.75	88.95	799.03	0.35	19.05	19.05	3.50	3.50	0.00	0.00
900.00	12.25	88.95	897.34	0.68	37.27	37.27	3.50	3.50	0.00	0.00
1000.00	15.75	88.95	994.35	1.12	61.45	61.46	3.50	3.50	0.00	0.00
1100.00	19.25	88.95	1089.71	1.67	91.51	91.53	3.50	3.50	0.00	0.00
1200.00	22.75	88.95	1183.05	2.33	127.34	127.36	3.50	3.50	0.00	0.00
1295.70	26.10	88.95	1270.17	3.05	166.90	166.92	3.50	3.50	0.00	0.00

## Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1300.00	26.10	88.95	1274.04	3.08	168.79	168.82	0.00	0.00	0.00	180.00
1400.00	26.10	88.95	1363.84	3.89	212.77	212.81	0.00	0.00	0.00	180.00
1500.00	26.10	88.95	1453.65	4.69	256.76	256.80	0.00	0.00	0.00	180.00
1600.00	26.10	88.95	1543.45	5.49	300.75	300.80	0.00	0.00	0.00	180.00
1700.00	26.10	88.95	1633.25	6.29	344.73	344.79	0.00	0.00	0.00	180.00
1800.00	26.10	88.95	1723.06	7.10	388.72	388.78	0.00	0.00	0.00	180.00
1900.00	26.10	88.95	1812.86	7.90	432.70	432.77	0.00	0.00	0.00	180.00
2000.00	26.10	88.95	1902.66	8.70	476.69	476.77	0.00	0.00	0.00	180.00
2100.00	26.10	88.95	1992.46	9.51	520.67	520.76	0.00	0.00	0.00	180.00
2200.00	26.10	88.95	2082.27	10.31	564.66	564.75	0.00	0.00	0.00	180.00
2300.00	26.10	88.95	2172.07	11.11	608.64	608.75	0.00	0.00	0.00	180.00
2400.00	26.10	88.95	2261.87	11.92	652.63	652.74	0.00	0.00	0.00	180.00
2500.00	26.10	88.95	2351.68	12.72	696.62	696.73	0.00	0.00	0.00	180.00
2600.00	26.10	88.95	2441.48	13.52	740.60	740.72	0.00	0.00	0.00	180.00
2700.00	26.10	88.95	2531.28	14.33	784.59	784.72	0.00	0.00	0.00	180.00
2800.00	26.10	88.95	2621.09	15.13	828.57	828.71	0.00	0.00	0.00	180.00
2900.00	26.10	88.95	2710.89	15.93	872.56	872.70	0.00	0.00	0.00	180.00
3000.00	26.10	88.95	2800.69	16.74	916.54	916.70	0.00	0.00	0.00	180.00
3100.00	26.10	88.95	2890.50	17.54	960.53	960.69	0.00	0.00	0.00	180.00
3200.00	26.10	88.95	2980.30	18.34	1004.51	1004.68	0.00	0.00	0.00	180.00
3300.00	26.10	88.95	3070.10	19.15	1048.50	1048.68	0.00	0.00	0.00	180.00
3319.66	26.10	88.95	3087.76	19.30	1057.15	1057.32	0.00	0.00	0.00	180.00

## Section 4 : Start Drop -2.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3400.00	24.09	88.95	3160.51	19.93	1091.21	1091.40	2.50	-2.50	0.00	180.00
3500.00	21.59	88.95	3252.66	20.63	1130.02	1130.21	2.50	-2.50	0.00	180.00
3600.00	19.09	88.95	3346.42	21.27	1164.77	1164.97	2.50	-2.50	0.00	180.00
3700.00	16.59	88.95	3441.60	21.83	1195.40	1195.60	2.50	-2.50	0.00	180.00
3800.00	14.09	88.95	3538.03	22.31	1221.85	1222.06	2.50	-2.50	0.00	180.00
3827.76	13.40	88.95	3565.00	22.43	1228.45	1228.65	2.50	-2.50	0.00	180.00
3900.00	11.59	88.95	3635.52	22.72	1244.07	1244.28	2.50	-2.50	0.00	180.00
4000.00	9.09	88.95	3733.89	23.04	1262.02	1262.23	2.50	-2.50	0.00	180.00
4100.00	6.59	88.95	3832.95	23.29	1275.66	1275.87	2.50	-2.50	0.00	180.00
4200.00	4.09	88.95	3932.51	23.46	1284.96	1285.18	2.50	-2.50	0.00	180.00
4202.50	4.03	88.95	3935.00	23.47	1285.14	1285.35	2.50	-2.50	0.00	-180.00
4300.00	1.59	88.95	4032.38	23.55	1289.92	1290.13	2.50	-2.50	0.00	180.00
4362.63	0.03	88.95	4095.00	23.57	1290.80	1291.01	2.50	-2.50	0.00	-180.00
4363.63	0.00	88.95	4096.00	23.57	1290.80	1291.02	2.50	-2.50	0.00	180.00

## Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4400.00	0.00	88.95	4132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
4500.00	0.00	88.95	4232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
4600.00	0.00	88.95	4332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
4700.00	0.00	88.95	4432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
4800.00	0.00	88.95	4532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
4900.00	0.00	88.95	4632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5000.00	0.00	88.95	4732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95

CONFIDENTIAL



# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 11-33F  
Well: HCU 11-33F  
Wellpath: 1

Date: 10/27/2005 Time: 11:23:45  
Co-ordinate(NE) Reference: HCU 11-33F, True North  
Vertical (TVD) Reference: KB @ 5315' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,88.95Azi)  
Plan: Plan #1

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### Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5100.00	0.00	88.95	4832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5200.00	0.00	88.95	4932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5262.63	0.00	88.95	4995.00	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5300.00	0.00	88.95	5032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5400.00	0.00	88.95	5132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5500.00	0.00	88.95	5232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5600.00	0.00	88.95	5332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5700.00	0.00	88.95	5432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5800.00	0.00	88.95	5532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
5900.00	0.00	88.95	5632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6000.00	0.00	88.95	5732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6100.00	0.00	88.95	5832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6200.00	0.00	88.95	5932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6300.00	0.00	88.95	6032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6400.00	0.00	88.95	6132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6500.00	0.00	88.95	6232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6512.63	0.00	88.95	6245.00	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6600.00	0.00	88.95	6332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6700.00	0.00	88.95	6432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6800.00	0.00	88.95	6532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
6900.00	0.00	88.95	6632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7000.00	0.00	88.95	6732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7100.00	0.00	88.95	6832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7200.00	0.00	88.95	6932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7300.00	0.00	88.95	7032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7400.00	0.00	88.95	7132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7437.63	0.00	88.95	7170.00	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7500.00	0.00	88.95	7232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7600.00	0.00	88.95	7332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7700.00	0.00	88.95	7432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7800.00	0.00	88.95	7532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
7900.00	0.00	88.95	7632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
8000.00	0.00	88.95	7732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
8100.00	0.00	88.95	7832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
8200.00	0.00	88.95	7932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
8300.00	0.00	88.95	8032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95
8317.63	0.00	88.95	8050.00	23.57	1290.80	1291.02	0.00	0.00	0.00	88.95

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	88.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	88.95	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	88.95	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	88.95	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	88.95	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	88.95	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	88.95	550.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
600.00	1.75	88.95	599.99	0.01	0.76	0.76	3.50	3.50	0.00	
700.00	5.25	88.95	699.79	0.13	6.87	6.87	3.50	3.50	0.00	
800.00	8.75	88.95	799.03	0.35	19.05	19.05	3.50	3.50	0.00	
900.00	12.25	88.95	897.34	0.68	37.27	37.27	3.50	3.50	0.00	
1000.00	15.75	88.95	994.35	1.12	61.45	61.46	3.50	3.50	0.00	
1100.00	19.25	88.95	1089.71	1.67	91.51	91.53	3.50	3.50	0.00	
1200.00	22.75	88.95	1183.05	2.33	127.34	127.36	3.50	3.50	0.00	
1295.70	26.10	88.95	1270.17	3.05	166.90	166.92	3.50	3.50	0.00	
1300.00	26.10	88.95	1274.04	3.08	168.79	168.82	0.00	0.00	0.00	
1400.00	26.10	88.95	1363.84	3.89	212.77	212.81	0.00	0.00	0.00	
1500.00	26.10	88.95	1453.65	4.69	256.76	256.80	0.00	0.00	0.00	
1600.00	26.10	88.95	1543.45	5.49	300.75	300.80	0.00	0.00	0.00	

CONFIDENTIAL



# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 11-33F  
Well: HCU 11-33F  
Wellpath: 1

Date: 10/27/2005 Time: 11:23:45  
Co-ordinate(NE) Reference: HCU 11-33F, True North  
Vertical (TVD) Reference: KB @ 5315' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,88.95Azi)  
Plan: Plan #1

Page: 4

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1700.00	26.10	88.95	1633.25	6.29	344.73	344.79	0.00	0.00	0.00	
1800.00	26.10	88.95	1723.06	7.10	388.72	388.78	0.00	0.00	0.00	
1900.00	26.10	88.95	1812.86	7.90	432.70	432.77	0.00	0.00	0.00	
2000.00	26.10	88.95	1902.66	8.70	476.69	476.77	0.00	0.00	0.00	
2100.00	26.10	88.95	1992.46	9.51	520.67	520.76	0.00	0.00	0.00	
2200.00	26.10	88.95	2082.27	10.31	564.66	564.75	0.00	0.00	0.00	
2300.00	26.10	88.95	2172.07	11.11	608.64	608.75	0.00	0.00	0.00	
2400.00	26.10	88.95	2261.87	11.92	652.63	652.74	0.00	0.00	0.00	
2500.00	26.10	88.95	2351.68	12.72	696.62	696.73	0.00	0.00	0.00	
2600.00	26.10	88.95	2441.48	13.52	740.60	740.72	0.00	0.00	0.00	
2700.00	26.10	88.95	2531.28	14.33	784.59	784.72	0.00	0.00	0.00	
2800.00	26.10	88.95	2621.09	15.13	828.57	828.71	0.00	0.00	0.00	
2900.00	26.10	88.95	2710.89	15.93	872.56	872.70	0.00	0.00	0.00	
3000.00	26.10	88.95	2800.69	16.74	916.54	916.70	0.00	0.00	0.00	
3100.00	26.10	88.95	2890.50	17.54	960.53	960.69	0.00	0.00	0.00	
3200.00	26.10	88.95	2980.30	18.34	1004.51	1004.68	0.00	0.00	0.00	
3300.00	26.10	88.95	3070.10	19.15	1048.50	1048.68	0.00	0.00	0.00	
3319.66	26.10	88.95	3087.76	19.30	1057.15	1057.32	0.00	0.00	0.00	
3400.00	24.09	88.95	3160.51	19.93	1091.21	1091.40	2.50	-2.50	0.00	
3500.00	21.59	88.95	3252.66	20.63	1130.02	1130.21	2.50	-2.50	0.00	
3600.00	19.09	88.95	3346.42	21.27	1164.77	1164.97	2.50	-2.50	0.00	
3700.00	16.59	88.95	3441.60	21.83	1195.40	1195.60	2.50	-2.50	0.00	
3800.00	14.09	88.95	3538.03	22.31	1221.85	1222.06	2.50	-2.50	0.00	
3827.76	13.40	88.95	3565.00	22.43	1228.45	1228.65	2.50	-2.50	0.00	Wasatch Tongue
3900.00	11.59	88.95	3635.52	22.72	1244.07	1244.28	2.50	-2.50	0.00	
4000.00	9.09	88.95	3733.89	23.04	1262.02	1262.23	2.50	-2.50	0.00	
4100.00	6.59	88.95	3832.95	23.29	1275.66	1275.87	2.50	-2.50	0.00	
4200.00	4.09	88.95	3932.51	23.46	1284.96	1285.18	2.50	-2.50	0.00	
4202.50	4.03	88.95	3935.00	23.47	1285.14	1285.35	2.50	-2.50	0.00	Uteland Limestone
4300.00	1.59	88.95	4032.38	23.55	1289.92	1290.13	2.50	-2.50	0.00	
4362.63	0.03	88.95	4095.00	23.57	1290.80	1291.01	2.50	-2.50	0.00	Wasatch
4363.63	0.00	88.95	4096.00	23.57	1290.80	1291.02	2.50	-2.50	0.00	
4400.00	0.00	88.95	4132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
4500.00	0.00	88.95	4232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
4600.00	0.00	88.95	4332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
4700.00	0.00	88.95	4432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
4800.00	0.00	88.95	4532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
4900.00	0.00	88.95	4632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5000.00	0.00	88.95	4732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5100.00	0.00	88.95	4832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5200.00	0.00	88.95	4932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5262.63	0.00	88.95	4995.00	23.57	1290.80	1291.02	0.00	0.00	0.00	Chapita Wells
5300.00	0.00	88.95	5032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5400.00	0.00	88.95	5132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5500.00	0.00	88.95	5232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5600.00	0.00	88.95	5332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5700.00	0.00	88.95	5432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5800.00	0.00	88.95	5532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
5900.00	0.00	88.95	5632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6000.00	0.00	88.95	5732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6100.00	0.00	88.95	5832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6200.00	0.00	88.95	5932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6300.00	0.00	88.95	6032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	

CONFIDENTIAL



# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 11-33F  
Well: HCU 11-33F  
Wellpath: 1

Date: 10/27/2005 Time: 11:23:45 Page: 5  
Co-ordinate(NE) Reference: HCU 11-33F, True North  
Vertical (TVD) Reference: KB @ 5315' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,88.95Azi)  
Plan: Plan #1

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6400.00	0.00	88.95	6132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	Uteland Buttes
6500.00	0.00	88.95	6232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6512.63	0.00	88.95	6245.00	23.57	1290.80	1291.02	0.00	0.00	0.00	
6600.00	0.00	88.95	6332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6700.00	0.00	88.95	6432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6800.00	0.00	88.95	6532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
6900.00	0.00	88.95	6632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7000.00	0.00	88.95	6732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	Mesaverde
7100.00	0.00	88.95	6832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7200.00	0.00	88.95	6932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7300.00	0.00	88.95	7032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7400.00	0.00	88.95	7132.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7437.63	0.00	88.95	7170.00	23.57	1290.80	1291.02	0.00	0.00	0.00	
7500.00	0.00	88.95	7232.37	23.57	1290.80	1291.02	0.00	0.00	0.00	BHL (Proposed)
7600.00	0.00	88.95	7332.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7700.00	0.00	88.95	7432.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7800.00	0.00	88.95	7532.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
7900.00	0.00	88.95	7632.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
8000.00	0.00	88.95	7732.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
8100.00	0.00	88.95	7832.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
8200.00	0.00	88.95	7932.37	23.57	1290.80	1291.02	0.00	0.00	0.00	BHL (Proposed)
8300.00	0.00	88.95	8032.37	23.57	1290.80	1291.02	0.00	0.00	0.00	
8317.63	0.00	88.95	8050.00	23.57	1290.80	1291.02	0.00	0.00	0.00	

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3827.76	3565.00	Wasatch Tongue		0.00	0.00
4202.50	3935.00	Uteland Limestone		0.00	0.00
4362.63	4095.00	Wasatch		0.00	0.00
5262.63	4995.00	Chapita Wells		0.00	0.00
6512.63	6245.00	Uteland Buttes		0.00	0.00
7437.63	7170.00	Mesaverde		0.00	0.00

### Annotation

MD ft	TVD ft	
550.00	550.00	KOP
8317.63	8050.00	BHL (Proposed)

CONFIDENTIAL



## SURFACE USE PLAN

### CONDITIONS OF APPROVAL

#### *Attachment for Permit to Drill*

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** HCU 11-33F  
SHL: 1996' FSL & 393' FWL Section 33-10S-20E  
BHL: 1995' FSL & 1680' FWL Section 33-10S-20E  
Uintah County, UT

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

The federal onsite inspection for the referenced well was conducted on Thursday, March 31, 2005 at approximately 2:45 pm. In attendance at the onsite inspection were the following individuals:

Ken Secrest	Foreman	Dominion E & P, Inc.
Brandon Bowthorpe	Surveyor	Uintah Engineering and Land Surveying
Jesse Merkley	Surveyors Helper	Uintah Engineering and Land Surveying
Stan Olmstead	Nat. Res. Prot. Spec.	Bureau of Land Management – Vernal
Randy Jackson	Foreman	Jackson Construction
Lonnie Hogan	Foreman	LaRose Construction
Don Hamilton	Permitting Agent	Buys & Associates, Inc.

1. Existing Roads:

- a. The proposed well site is located approximately 12.89 miles south of Ouray, UT.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the Hill Creek Unit. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal Right-of-Way is not anticipated for the access road or utility corridor since both are located within the existing Hill Creek Unit boundary.

2. Planned Access Roads:

- a. From the proposed road that will access the HCU 5-33F an access is proposed trending west approximately 150' to the proposed well site. The access consists of entirely new disturbance and crosses no significant drainages. A road design plan is not anticipated at this time.
- b. The proposed access road will consist of a 24' travel surface within a 30' disturbed area.
- c. BLM approval to construct and utilize the proposed access road is requested with this application.
- d. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.
- e. No turnouts are proposed since the access road is only 150' long and adequate site distance exists in all directions.
- f. No culverts or low water crossings are anticipated. Adequate drainage structures will be incorporated into the road.
- g. No surfacing material will come from federal or Indian lands.
- h. No gates or cattle guards are anticipated at this time.
- i. Surface disturbance and vehicular travel will be limited to the approved location access road.
- j. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989).
- k. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

- a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Desert Brown to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

- d. A tank battery will be constructed on this location; it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A gas pipeline is associated with this application and is being applied for at this time. The proposed gas pipeline corridor will leave the east side of the well site and traverse 127' east then 0.28 miles southwest to the proposed 10" pipeline that will service the HCU 10-28F.
- i. The new gas pipeline will be a 6" steel surface line within a 20' wide utility corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline construction. A new pipeline length of approximately 0.3 miles is associated with this well.
- j. Dominion intends on installing the pipeline on the surface by welding many joints into long lengths, dragging the long lengths into position and then completing a final welding pass to join the long lengths together. Dominion intends on connecting the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

- a. The location and type of water supply has been addressed as number 11 within the previous drilling plan information.

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the south side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.

- e. The reserve pit will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved Dominion disposal well for disposal.
- k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.
- l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.

- b. Access to the well pad will be from the east.
- c. The pad and road designs are consistent with BLM and Tribal specification
- d. A pre-construction meeting with responsible company representative, contractors and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size of 355' X 200'; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- k. Pits will remain fenced until site cleanup.
- l. The blooie line will be located at least 100 feet from the well head.
- m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface:

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On Ute Tribal and BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- c. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.
- d. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and re-vegetated. The stockpiled topsoil will be evenly distributed over the disturbed area.

- e. Prior to reseeding the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM. The BLM recommended seed mix will be identified in the BLM approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.
- b. Mineral Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

- a. AIA Archaeological has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by AIA Archaeological.
- b. Alden Hamblin has conducted a paleontological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- c. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
  - b. No drainage crossings that require additional State or Federal approval are being crossed.

13. Operator's Representative and Certification

<u>Title</u>	<u>Name</u>	<u>Office Phone</u>
Company Representative (Roosevelt)	Mitchiel Hall	1-435-722-4521
Company Representative (Oklahoma)	Carla Christian	1-405-749-5263
Agent for Dominion	Don Hamilton	1-435-637-4075

**Certification:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exists; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Dominion Exploration & Production, Inc. and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Dominion's BLM bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: Don Hamilton Date: 10-31-05

# DOMINION EXPLR. & PROD., INC.

HCU #12-33F #11-33F

SECTION 33, T10S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 4.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.45 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING TWO-TRACK ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #10-28F TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY, THEN WESTERLY, THEN NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #13-33F TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #5-33F TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 150' TO THE PROPOSED LOCATION.

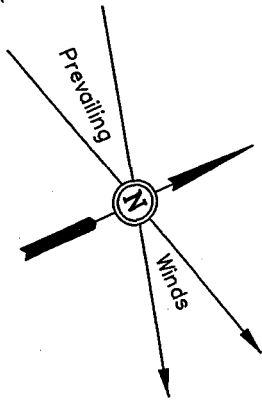
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.9 MILES.



# DOMINION EXPLR. & PROD., INC.

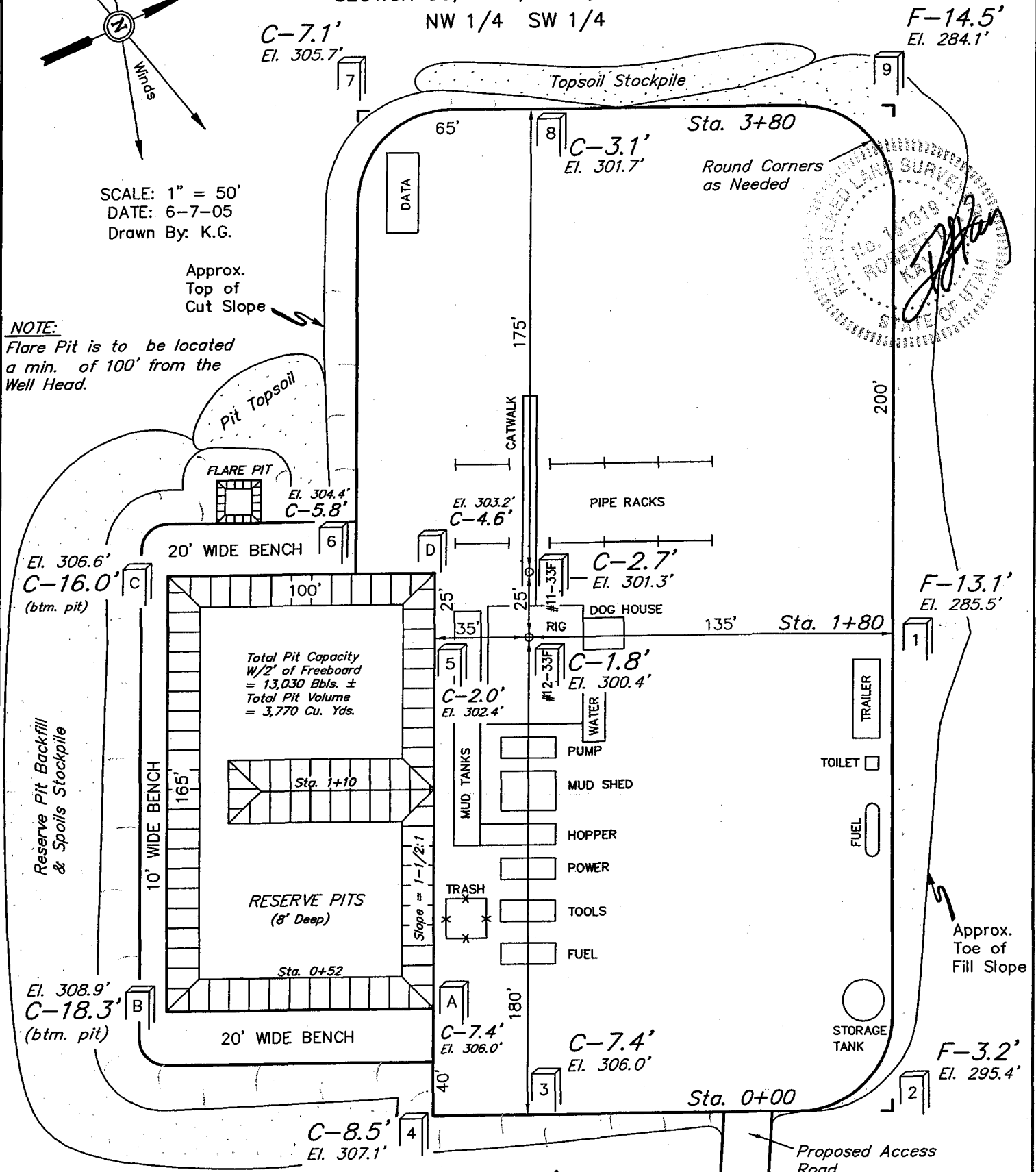
## LOCATION LAYOUT FOR

HCU #12-33F & HCU #11-33F  
SECTION 33, T10S, R20E, S.L.B.&M.  
NW 1/4 SW 1/4



SCALE: 1" = 50'  
DATE: 6-7-05  
Drawn By: K.G.

**NOTE:**  
Flare Pit is to be located  
a min. of 100' from the  
Well Head.



Elev. Ungraded Ground at #12-33F Location Stake = 5300.4'  
Elev. Graded Ground at #12-33F Location Stake = 5298.6'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

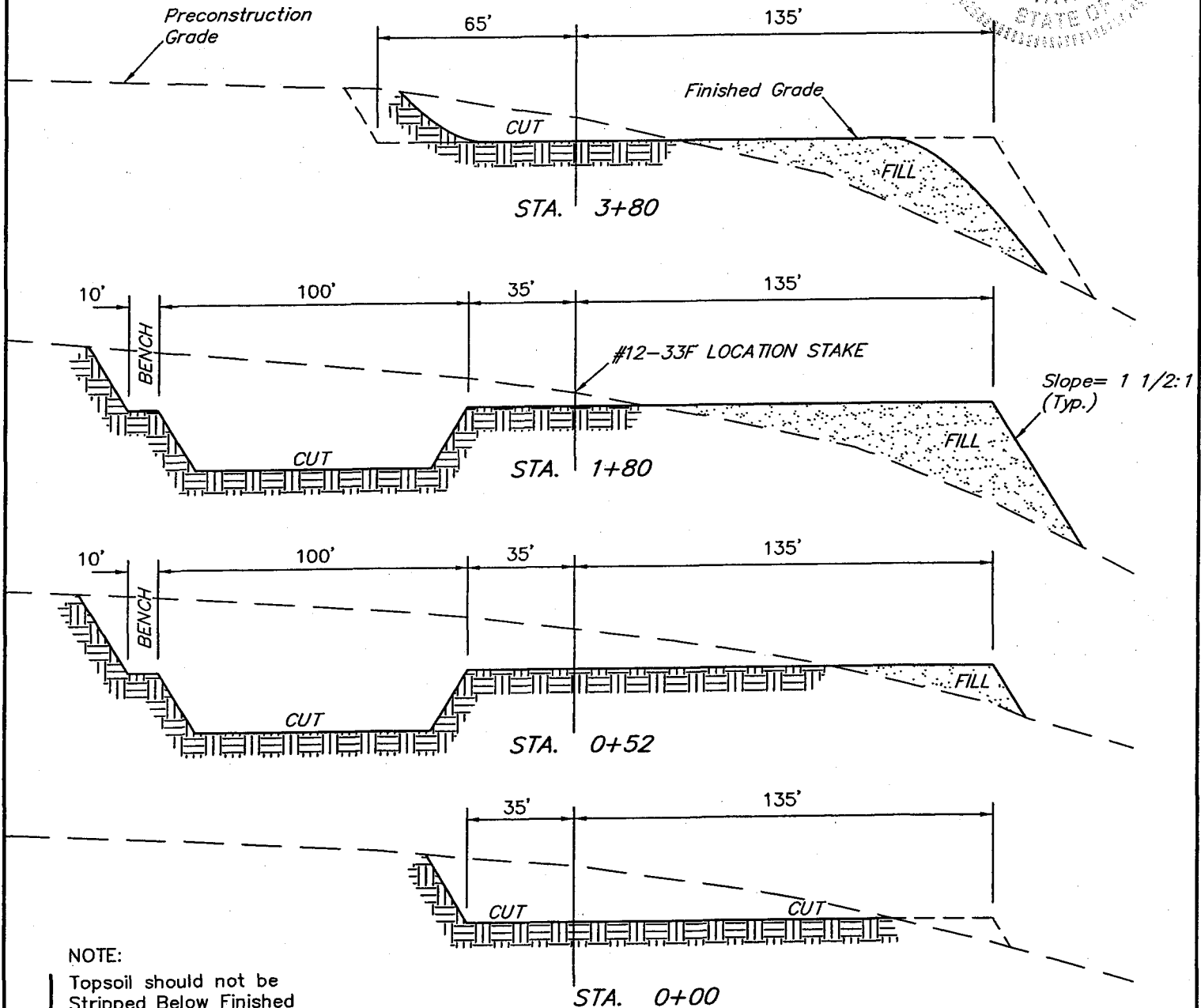
# UNION EXPLR. & PROD., INC.

## TYPICAL CROSS SECTIONS FOR

HCU #12-33F & HCU #11-33F  
SECTION 33, T10S, R20E, S.L.B.&M.  
NW 1/4 SW 1/4

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 6-7-05  
Drawn By: K.G.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### APPROXIMATE YARDAGES

CUT  
(6") Topsoil Stripping = 2,100 Cu. Yds.  
Remaining Location = 15,080 Cu. Yds.  
  
TOTAL CUT = 17,180 CU.YDS.  
FILL = 7,190 CU.YDS.

### \* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL = 9,990 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,990 Cu. Yds.  
EXCESS UNBALANCE (After Rehabilitation) = 6,000 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# DOMINION EXPLR. & PROD., INC.

HCU #12-33F #11-33F  
LOCATED IN UTAH COUNTY, UTAH  
SECTION 33, T10S, R20E, S.L.B.&M.

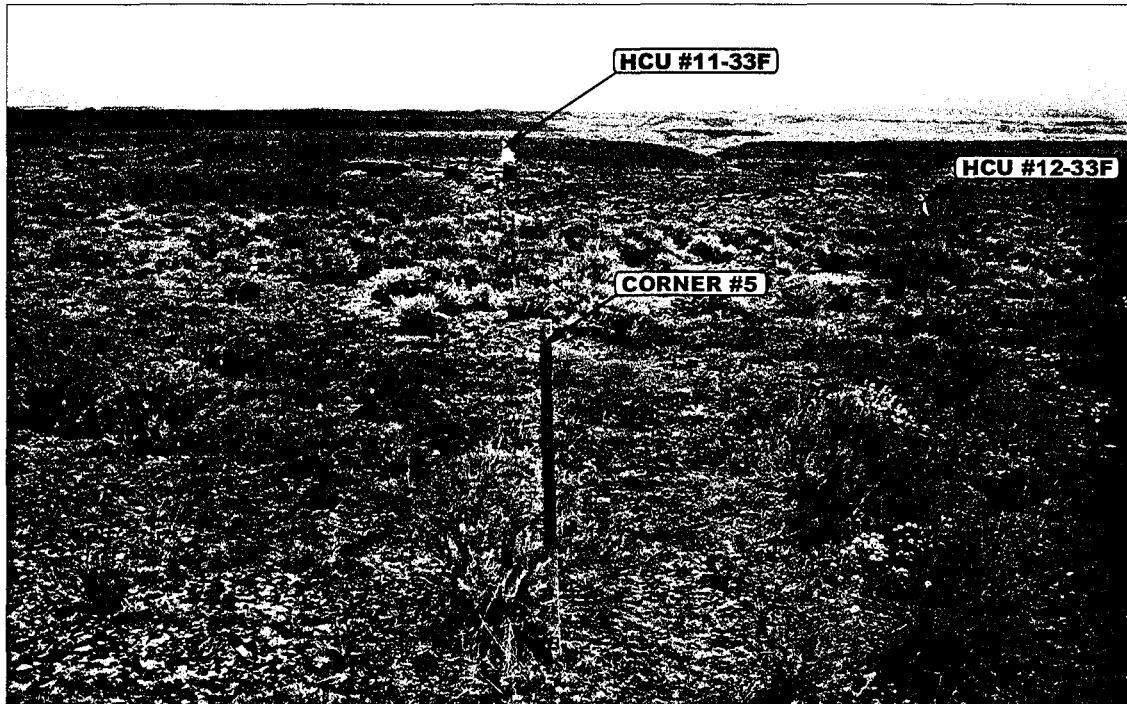


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

**E&L**S

Uintah Engineering & Land Surveying

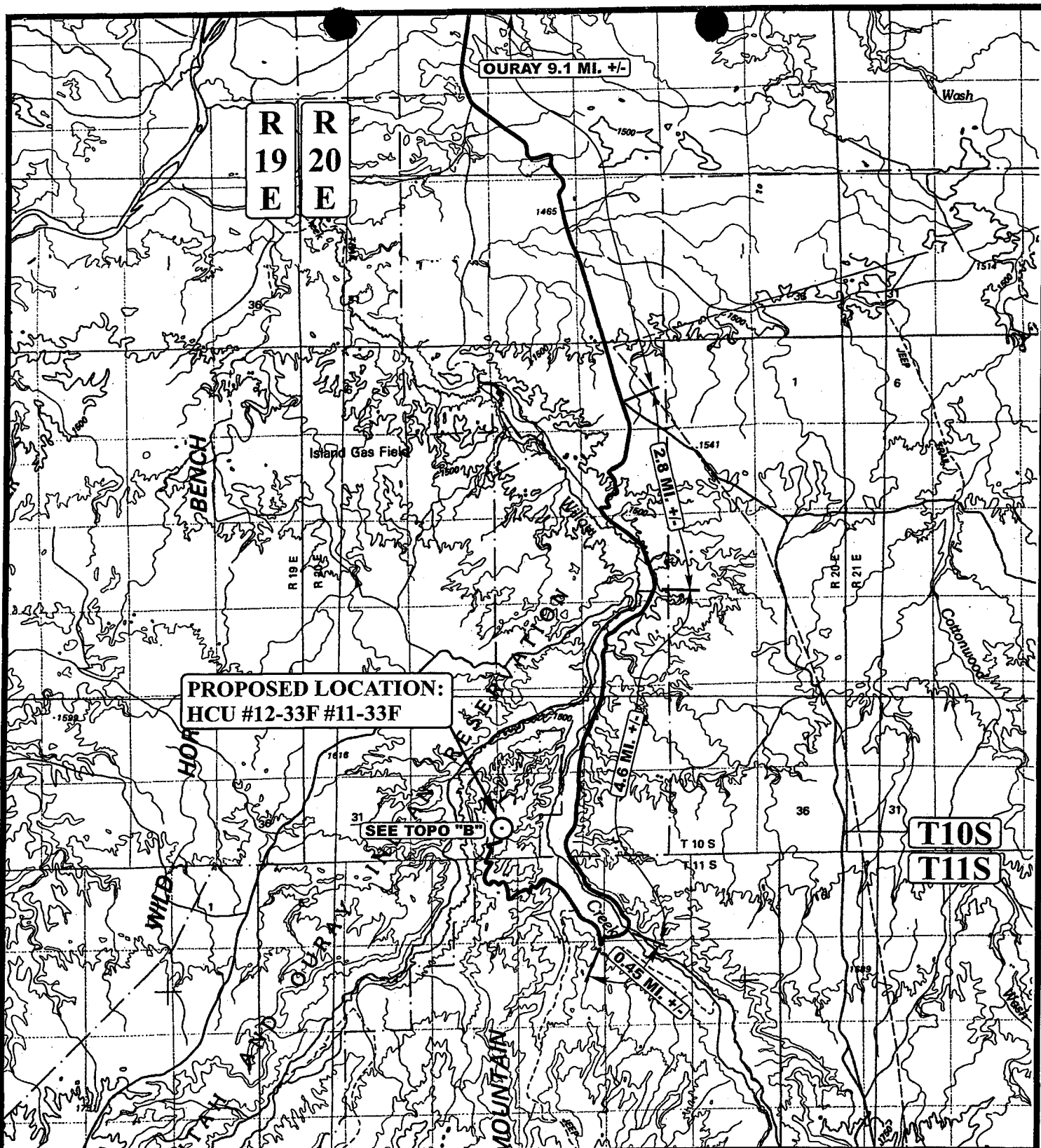
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

03 09 05  
MONTH DAY YEAR

PHOTO

TAKEN BY: M.A. DRAWN BY: C.P. REVISED: 05-31-05



**LEGEND:**

○ PROPOSED LOCATION

**DOMINION EXPLR. & PROD., INC.**

HCU #12-33F #11-33F  
SECTION 33, T10S, R20E, S.L.B.&M.  
NW 1/4 SW 1/4



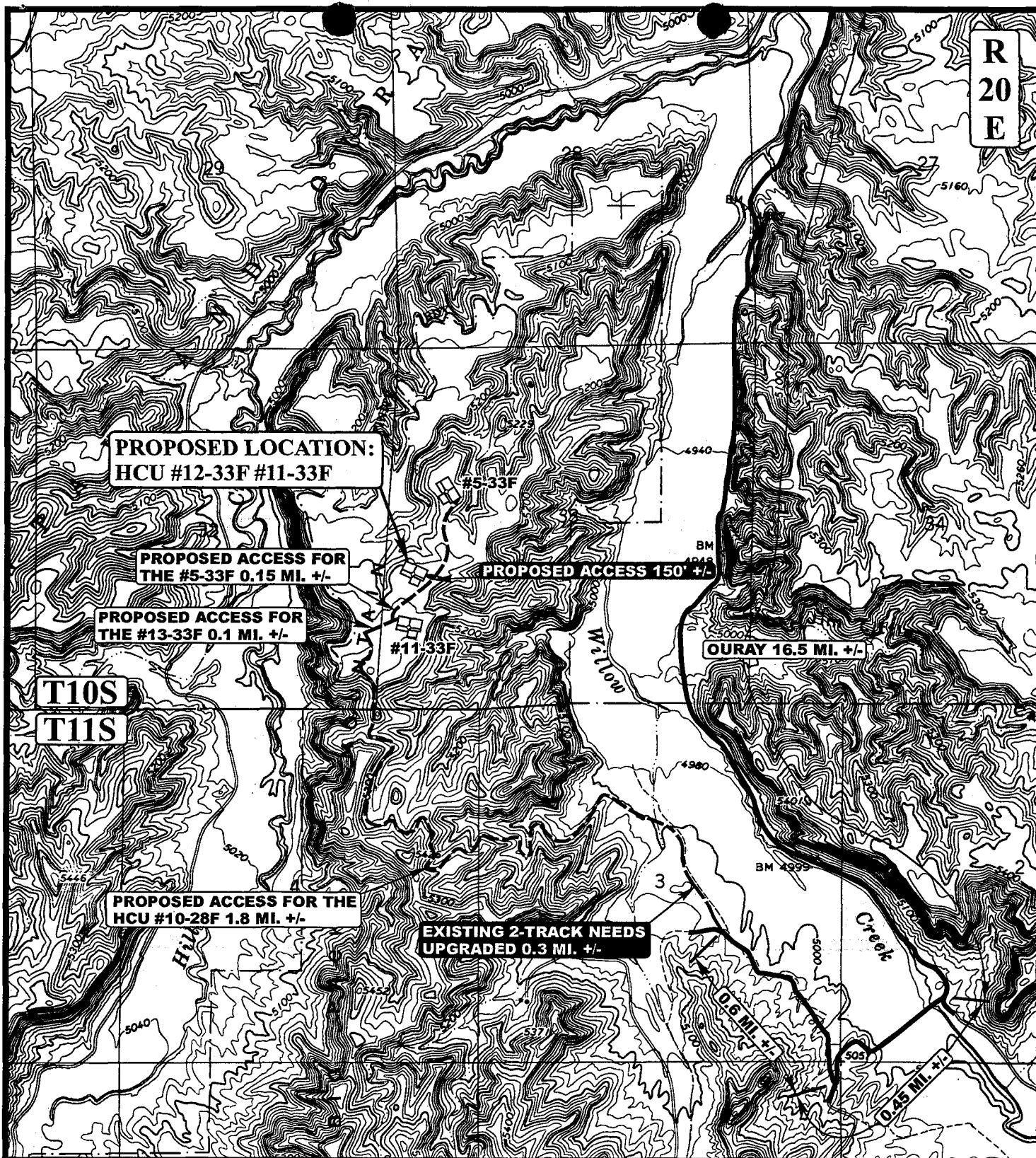
Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

03 09 05  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 05-31-05





# LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING 2-TRACK NEEDS UPGRADED



# DOMINION EXPLR. & PROD., INC.

HCU #12-33F #11-33F  
SECTION 33, T10S, R20E, S.L.B.&M.  
NW 1/4 SW 1/4



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

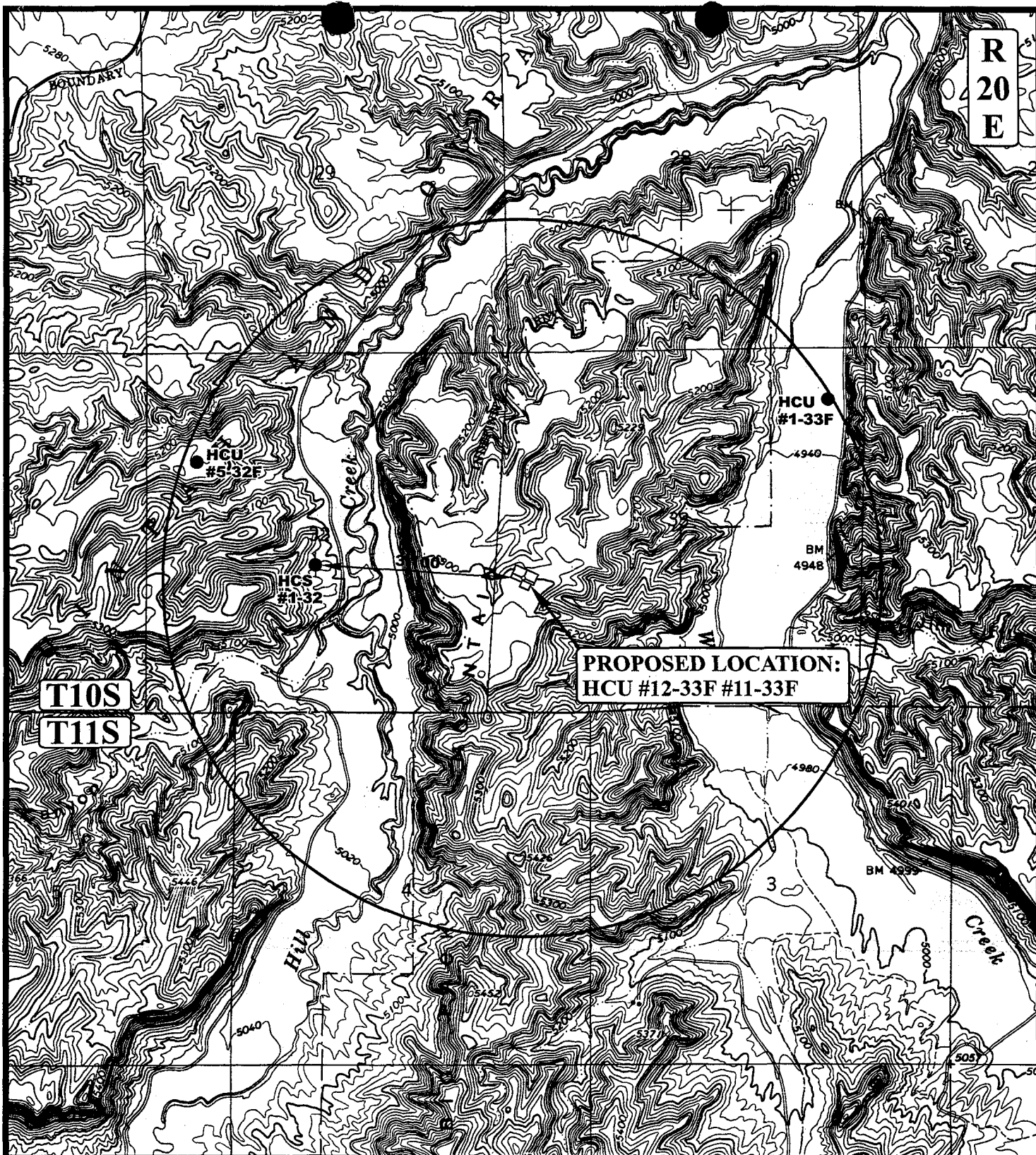
TOPOGRAPHIC  
MAP

03 09 05  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 05-31-05

**B**  
TOPO





# LEGEND:

- |                   |                   |
|-------------------|-------------------|
| ○ DISPOSAL WELLS  | ○ WATER WELLS     |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS   | ●                 |



## DOMINION EXPLR. & PROD., INC.

HCU #12-33F #11-33F  
SECTION 33, T10S, R20E, S.L.B.&M.  
NW 1/4 SW 1/4



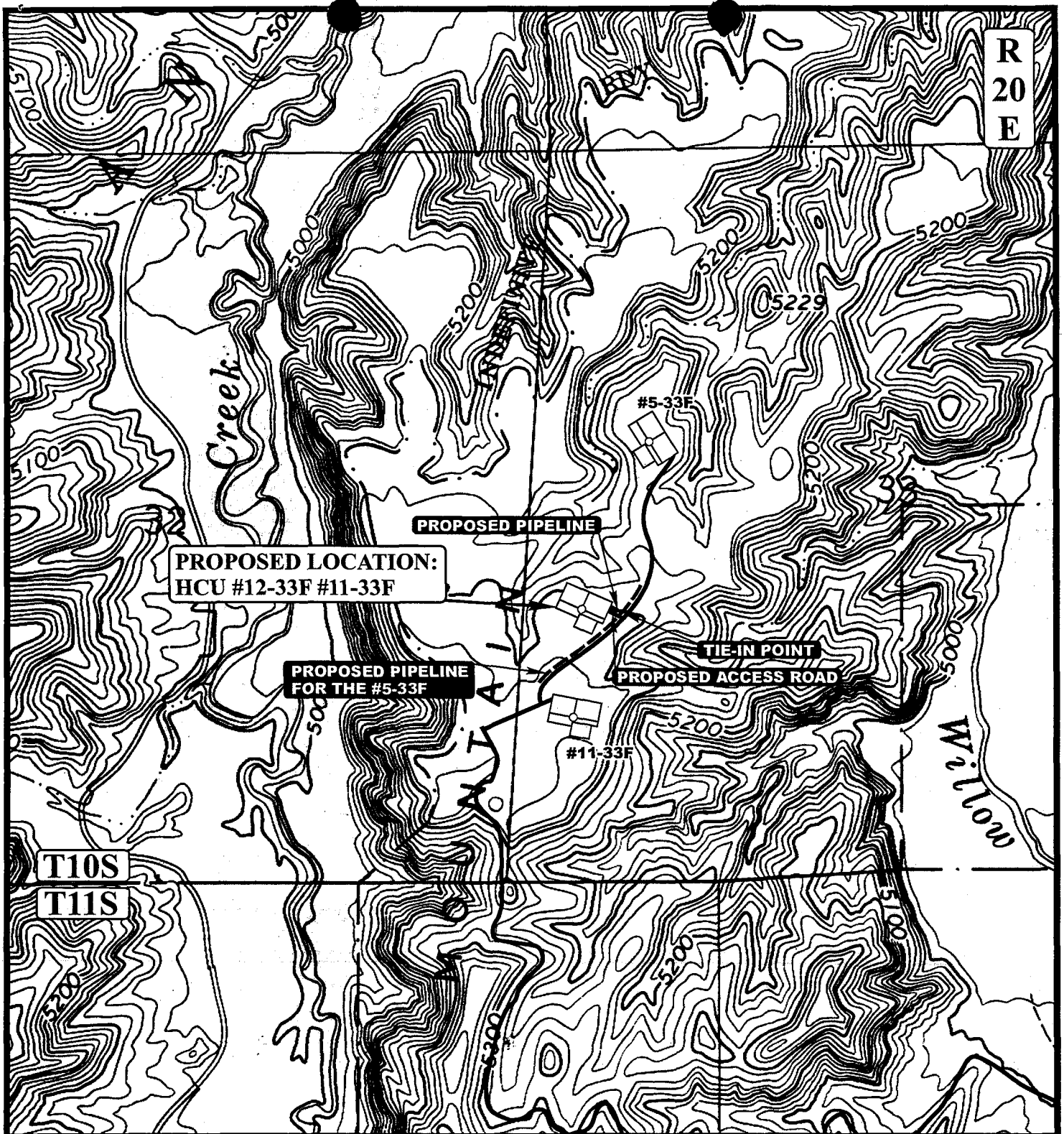
Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

03	09	05
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 05-31-05





**APPROXIMATE TOTAL PIPELINE DISTANCE = 127 +/-**

**LEGEND:**

- ===== PROPOSED ACCESS ROAD
- ===== EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

**N**

**DOMINION EXPLR. & PROD., INC.**

**HCU #12-33F #11-33F**

**SECTION 33, T10S, R20E, S.L.B.&M.**

**NW 1/4 SW 1/4**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

<b>03</b>	<b>09</b>	<b>05</b>
MONTH	DAY	YEAR

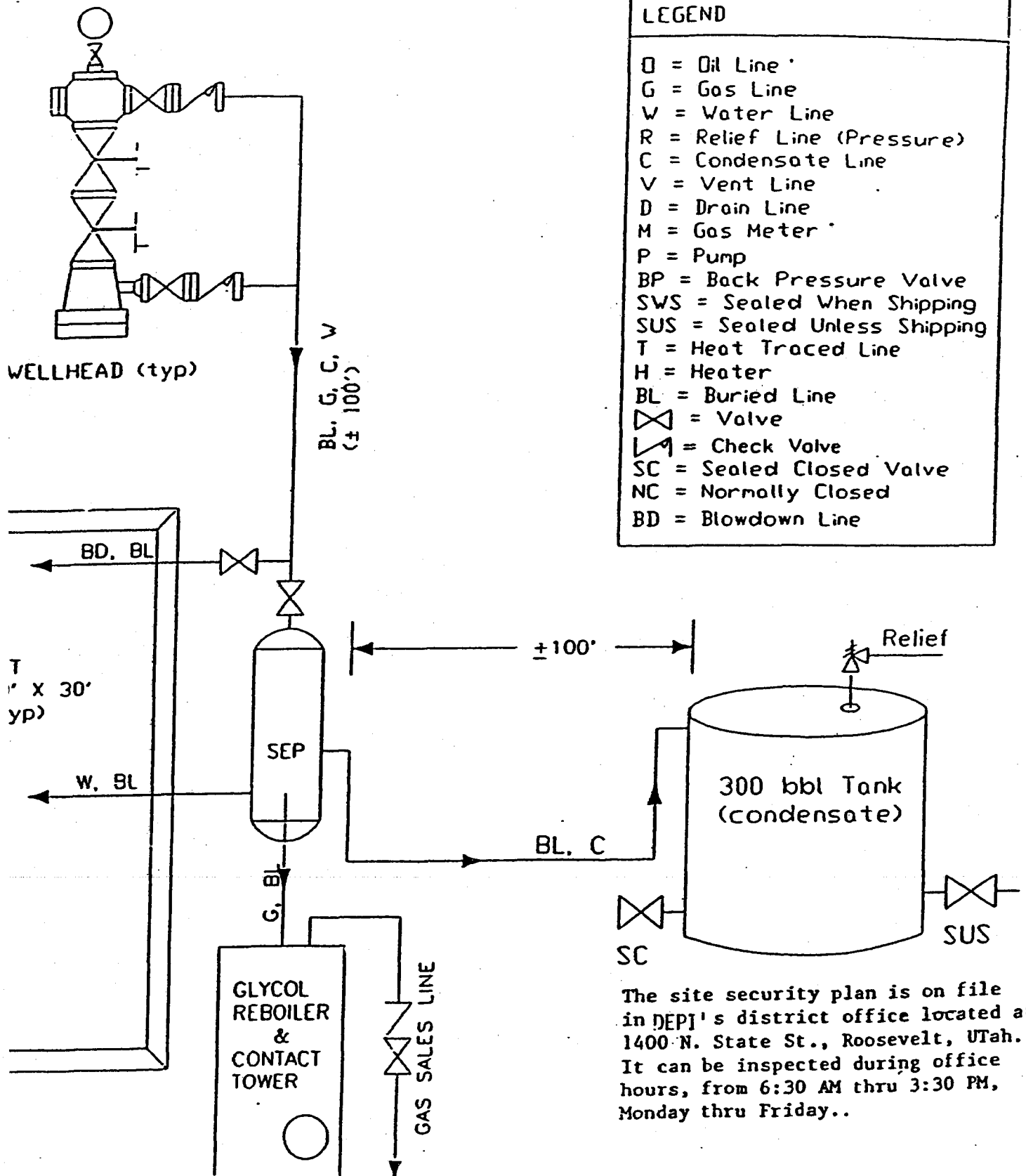
**SCALE: 1" = 1000'** **DRAWN BY: C.P.** **REVISED: 05-31-05**

**D  
TOPO**

CONFIDENTIAL

# LEGEND

O = Oil Line  
 G = Gas Line  
 W = Water Line  
 R = Relief Line (Pressure)  
 C = Condensate Line  
 V = Vent Line  
 D = Drain Line  
 M = Gas Meter  
 P = Pump  
 BP = Back Pressure Valve  
 SWS = Sealed When Shipping  
 SUS = Sealed Unless Shipping  
 T = Heat Traced Line  
 H = Heater  
 BL = Buried Line  
 X = Valve  
 <img alt="check valve symbol" data-bbox="565 355 600 375"/> = Check Valve  
 SC = Sealed Closed Valve  
 NC = Normally Closed  
 BD = Blowdown Line



The site security plan is on file  
 in DEPI's district office located at  
 1400 N. State St., Roosevelt, Utah.  
 It can be inspected during office  
 hours, from 6:30 AM thru 3:30 PM,  
 Monday thru Friday..

DOMINION EXPLORATION & PRODUCTION, INC.

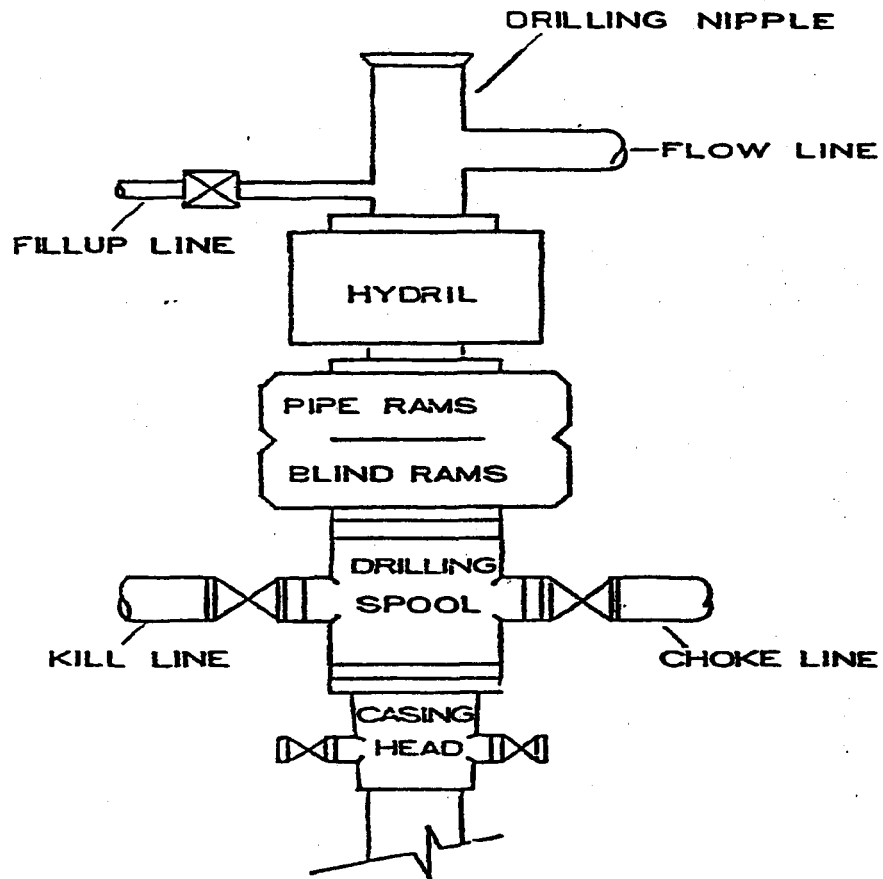
not to scale

TYPICAL FLOW DIAGRAM

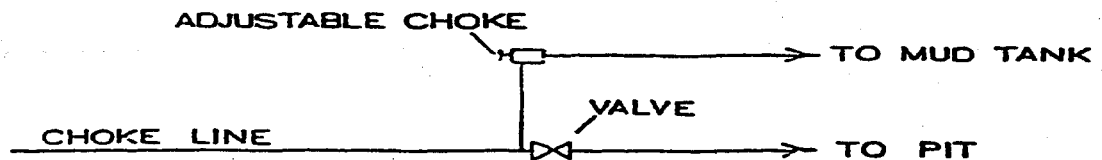
date: / /



## BOP STACK - 3000<sup>#</sup>



## CHOKE MANIFOLD - 3000<sup>#</sup>



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/04/2005

API NO. ASSIGNED: 43-047-37360

WELL NAME: HCU 11-33F

OPERATOR: DOMINION EXPL & PROD ( N1095 )

CONTACT: DON HAMILTON

PHONE NUMBER: 435-650-1886

PROPOSED LOCATION:

NWSW 33 100S 200E

SURFACE: 1996 FSL 0393 FWL

BOTTOM: 1995 FSL 1680 FWL

UINTAH

NATURAL BUTTES ( 630 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: U-28203

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MVRD

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.90191

LONGITUDE: -109.6777

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 76S630500330 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-10447 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

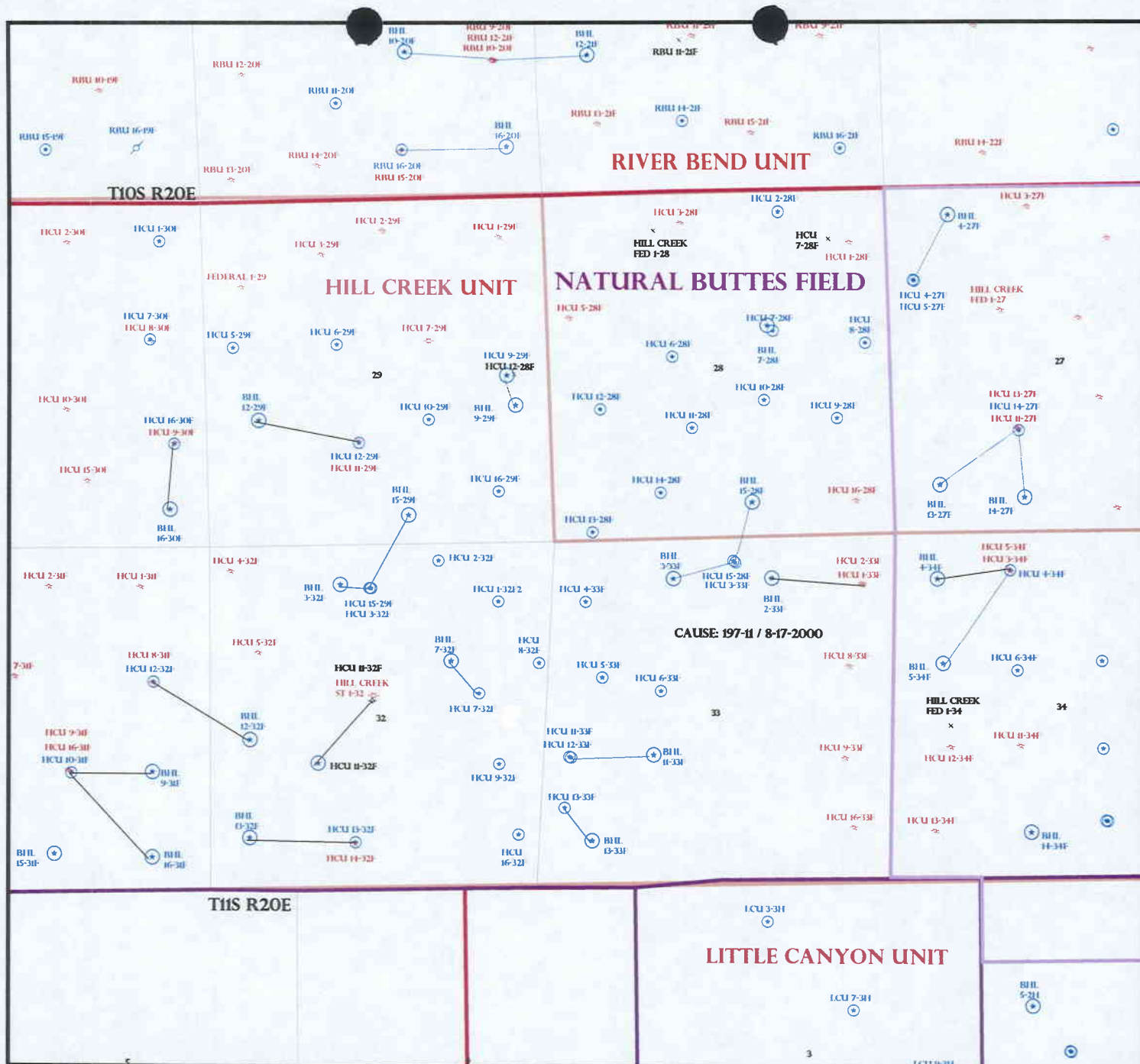
LOCATION AND SITING:

☒ R649-2-3.  
Unit HILL CREEK  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 197-11  
Eff Date: 8-17-00  
Siting: Suspends General Siting  
☒ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

1- Federal Approval  
2- OIL SHALE



OPERATOR: DOMINION EXPL & PROD (N1095)

SEC: 28,32,33 T. 10S R. 20E

FIELD: NATURAL BUTTES (630)

COUNTY: UTAH

CAUSE: 197-11 / 8-17-2000

**Field Status**

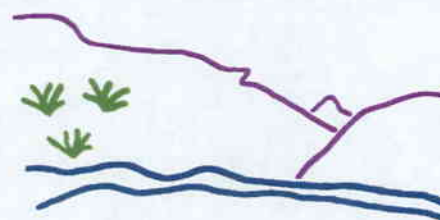
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**Unit Status**

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 7-NOVEMBER-2005

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

November 7, 2005

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2005 Plan of Development Hill Creek Unit Uintah County,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2005 within the Hill Creek Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MesaVerde)		
43-047-37359	HCU 2-32F Sec 32 T10S R20E 0247 FNL 1769 FEL	
43-047-37361	HCU 2-28F Sec 28 T10S R20E 0290 FNL 1652 FEL	
43-047-37360	HCU 11-33F Sec 33 T10S R20E 1996 FSL 0393 FWL	
	BHL Sec 33 T10S R20E 1995 FSL 1680 FWL	

Our records indicate the 2-28 is closer than 460 feet from the Hill Creek Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Hill Creek Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

November 7, 2005

Dominion Exploration & Production, Inc.  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

Re: Hill Creek Unit 11-33F Well, Surface Location 1996' FSL, 393' FWL, NW SW,  
Sec. 33, T. 10 South, R. 20 East, Bottom Location 1995' FSL, 1680' FWL,  
NE SW, Sec. 33, T. 10 South, R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37360.

Sincerely,

Gil Hunt  
Associate Director

pab

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Dominion Exploration & Production, Inc.  
Well Name & Number Hill Creek Unit 11-33F  
API Number: 43-047-37360  
Lease: U-28203

Surface Location: NW SW      Sec. 33      T. 10 South      R. 20 East  
Bottom Location: NE SW      Sec. 33      T. 10 South      R. 20 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division

NOV 07 2005

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. U-28203
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Dominion Exploration & Production, Inc.		7. If Unit or CA Agreement, Name and No. Hill Creek Unit
3a. Address 14000 Quail Springs Parkway, Suite 600 Oklahoma City, OK 73134		8. Lease Name and Well No. HCU 11-33F
3b. Phone No. (include area code) 405-749-5263		9. API Well No. 4304737360
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1,996' FSL & 393' FWL NW/4 SW/4 At proposed prod. zone 1,995' FSL & 1,680' FWL NE/4 SW/4		10. Field and Pool, or Exploratory Natural Buttes
11. Sec., T. R. M. or Blk. and Survey or Area Section 33, T10S, R20E, SLB&M		12. County or Parish Utah
13. State UT		14. Distance in miles and direction from nearest town or post office* 12.89 miles southwest of Ouray, Utah
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 393'	16. No. of acres in lease 1,880 acres	17. Spacing Unit dedicated to this well 40 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 25'	19. Proposed Depth 8,050' TVD (8,318' MD)	20. BLM/BIA Bond No. on file 76S 63050.0230 WY3322
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,301 GR	22. Approximate date work will start* 02/01/2006	23. Estimated duration 14 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature Don Hamilton	Name (Printed/Typed) Don Hamilton	Date 10/31/2005
Title Agent for Dominion		
Approved By (Signature) [Signature]	Name (Printed/Typed)	Date 02/24/2006
Title Assistant Field Manager Mineral Resources		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

NOTICE OF APPROVAL

RECEIVED

MAR 13 2006

DIV. OF OIL, GAS & MINING

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

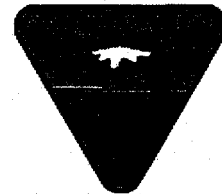
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CONFIDENTIAL



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: **Dominion Expl. & Prod. Inc.** Location: **NWSW, Sec 33, T10S, R20E**  
Well No: **HCU 11-33F** Lease No: **UTU-28203**  
API No: **43-047-37360** Agreement: **Hill Creek WS MV**

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
After Hours Contact Number: 435-781-4513		Fax: 435-781-4410	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- |   |   |  |
|---|---|--|
| Location Construction<br>(Notify Karl Wright)           | - | Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Karl Wright)             | - | Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)              | - | Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Jamie Sparger)     | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Jamie Sparger) | - | Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)  | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |



***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

1. Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.
2. If paleontologic materials are uncovered during construction, the operator shall immediately stop work that might further disturb such materials and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation will be necessary for the discovered paleontologic material.
3. Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.
4. The following seed mixture shall be used:

Type		lbs./acre
Shadscale	Atriplex confertifolia	3
Fourwing salt bush	Atgriplex canescens	3
Galleta grass	Hilaria jamesil	3
Gardners salt brush	Atriplex gardneri	3
** Seed shall be drilled; but if broadcasted double the pounds per acre used and work the solids mechanically to cover the seed.		

5. Other reclamation methods including but not limited to mulching or soil treatments may be required on a site-specific basis.
6. The pits will be lined with 16 ply or greater plastic liners, and padded with the appropriate layers of felt to prevent any punctures of the liner.
7. The entire pad will be bermed, to deter any potential water flows from entering the pad and potentially carrying oil and/or gas products down the mountain into Willow Creek or Hill Creek and ultimately into the Green River.

### **DOWNHOLE CONDITIONS OF APPROVAL**

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

#### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

1. None

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) will remain in use until the well is completed or abandoned. Closing unit controls must remain unobstructed and readily accessible at all times. Choke manifolds must be located outside of the rig substructure.

All BOPE components will be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests must be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test must be reported in the driller's log.

BOP drills must be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

5. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
6. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior

approval of the BLM, Vernal Field Office must be obtained and notification given before resumption of operations.

7. Chronologic drilling progress reports must be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program must be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well must be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

8. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by the BLM, Vernal Field Office.

**Please submit an electronic copy of all logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF other).**

9. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

10. Oil and gas meters will be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future

meter proving schedules. A copy of the meter calibration reports will be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.

11. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
12. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (1/4, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
13. Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
14. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
15. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day

period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

16. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Dominion Exploration & Production, Inc.

3a. Address Suite 600  
14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)  
(405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1966' FSL & 393' FWL, NW SW, Section 33-10S-20E, Surface  
1995' FSL & 1680' FWL, NE SW, Section 33-10S-20E, Bottom

5. Lease Serial No.  
U-28203

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
Hill Creek Unit

8. Well Name and No.  
HCU 11-33F

9. API Well No.  
43-047-37360

10. Field and Pool, or Exploratory Area  
Natural Buttes

11. County or Parish, State  
Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	APD Extension
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The State APD expires November 7, 2006. Dominion is hereby requesting a one year extension.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 10-31-06  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 10-31-06  
Initials: [Signature]

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Carla Christian

Signature [Signature]

Title Sr. Regulatory Specialist

Date 10/26/2006

THIS SPACE FOR FEDERAL OR STATE OFFICIAL USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED  
OCT 30 2006  
DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-37360  
**Well Name:** HCU 11-33F  
**Location:** Section 33-10S-20E, 1996' FSL & 393' FWL  
**Company Permit Issued to:** Dominion Exploration & Production, Inc.  
**Date Original Permit Issued:** 11/7/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Carla Christian  
Signature

10/26/2006  
Date

Title: Sr. Regulatory Specialist

Representing: Dominion Exploration & Production, Inc.

RECEIVED  
OCT 30 2006  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address Suite 600  
14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)  
(405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1966' FSL & 393' FWL, NW SW, Section 33-10S-20E, Surface  
1995' FSL & 1680' FWL, NE SW, Section 33-10S-20E, Bottom

5. Lease Serial No.

U-28203

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Hill Creek Unit

8. Well Name and No.

HCU 11-33F

9. API Well No.

43-047-37360

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Dominion request permission to slightly change the layout of the directional drilling plan for the HCU 11-33F. Please find attached a new directional plan and drilling plan.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Carla Christian

Title Sr. Regulatory Specialist

Signature

*Carla Christian*

Date 10/31/2006

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

NOV 03 2006

DIV. OF OIL, GAS & MINING





**Dominion**

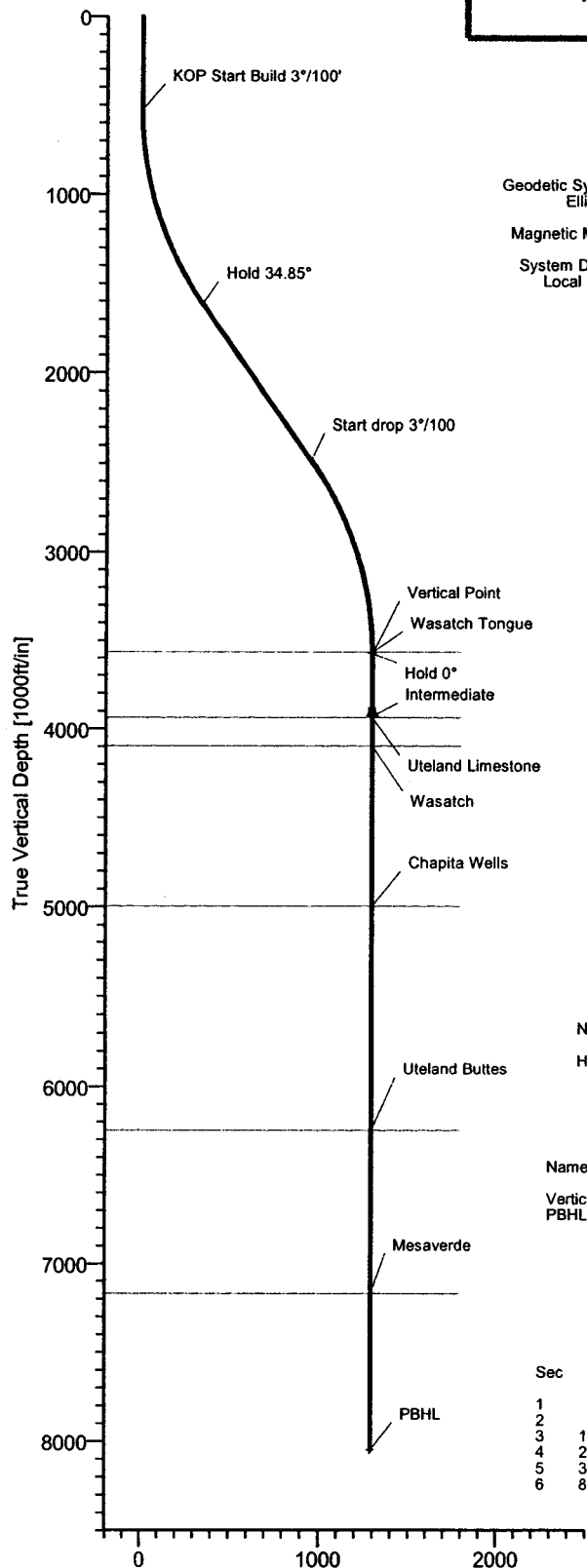
# Dominion Exploration & Production

Field: Uintah County, Utah  
Site: HCU # 11-33F  
Well: HCU 11-33F  
Wellpath: Original Hole  
Plan: Plan #2



Azimuths to True North  
Magnetic North: 11.72°

Magnetic Field  
Strength: 52769nT  
Dip Angle: 65.87°  
Date: 10/26/2006  
Model: igrf2005



Vertical Section at 88.95° [1000ft/in]

## FIELD DETAILS

Uintah County, Utah  
Utah - Natural Buttes  
USA

Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igrf2005

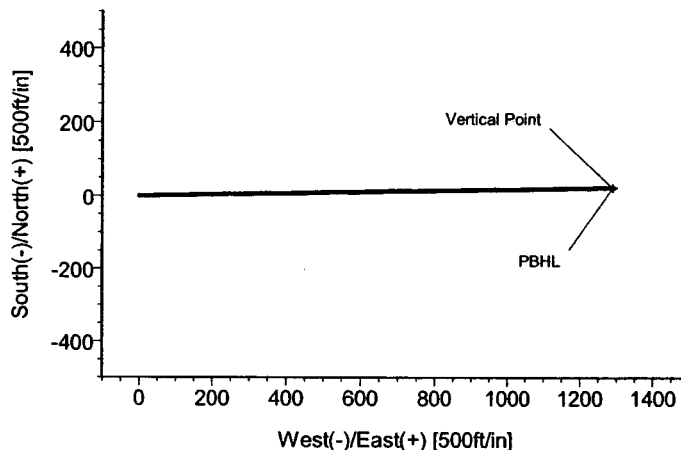
System Datum: Mean Sea Level  
Local North: True North

## SITE DETAILS

HCU # 11-33F  
Sec.33, T10S, R20E

Site Centre Latitude: 39°54'06.760N  
Longitude: 109°40'42.110W

Ground Level: 5299.00  
Positional Uncertainty: 0.00  
Convergence: 1.17



## WELLPATH DETAILS

Original Hole

Rig: Patterson 12  
Ref. Datum: Est RKB 5315.00ft

V. Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
88.95°	0.00	0.00	8050.00

## WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
HCU 11-33F	0.00	0.00	7138200.96	2151419.08	39°54'06.760N	109°40'42.110W	N/A

## TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Vertical Point	3578.00	23.57	1290.80	Point
PBHL	8050.00	23.57	1290.80	Point

## FORMATION TOP DETAILS

No.	TVDPATH	MDPATH	Formation
1	3565.00	3895.81	Wasatch Tongue
2	3935.00	4265.81	Uteland Limestone
3	4095.00	4425.81	Wasatch
4	4995.00	5325.81	Chapita Wells
5	6245.00	6575.81	Uteland Buttes
6	7170.00	7500.81	Mesaverde

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	88.95	0.00	0.00	0.00	0.00	0.00	0.00	
2	525.00	0.00	88.95	525.00	0.00	0.00	0.00	0.00	0.00	
3	1686.65	34.85	88.95	1616.35	6.25	342.46	3.00	88.95	342.51	
4	2747.19	34.85	88.95	2486.69	17.32	948.35	0.00	0.00	948.51	
5	3908.81	0.00	88.95	3578.00	23.57	1290.80	3.00	180.00	1291.02	Vertical Point
6	8380.81	0.00	88.95	8050.00	23.57	1290.80	0.00	88.95	1291.02	PBHL





# Ryan Energy Technologied

## Planning Report



Company: Dominion Exploration & Product  
Field: Uintah County, Utah  
Site: HCU # 11-33F  
Well: HCU 11-33F  
Wellpath: Original Hole

Date: 10/26/2006 Time: 11:20:59  
Co-ordinate(NE) Reference: Well: HCU 11-33F, True North  
Vertical (TVD) Reference: Est RKB 5315.0  
Section (VS) Reference: Well (0.00N,0.00E,88.95Azi)  
Plan: Plan #2

Page: 1

Field: Uintah County, Utah  
Utah - Natural Buttes  
USA

Map System: US State Plane Coordinate System 1983  
Geo Datum: GRS 1980  
Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
Coordinate System: Well Centre  
Geomagnetic Model: igrf2005

Site: HCU # 11-33F

Sec.33, T10S, R20E

Site Position: Northing: 7138200.96 ft Latitude: 39 54 6.760 N  
From: Geographic Easting: 2151419.08 ft Longitude: 109 40 42.110 W  
Position Uncertainty: 0.00 ft North Reference: True  
Ground Level: 5299.00 ft Grid Convergence: 1.17 deg

Well: HCU 11-33F

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 7138200.96 ft Latitude: 39 54 6.760 N  
+E/-W 0.00 ft Easting: 2151419.08 ft Longitude: 109 40 42.110 W  
Position Uncertainty: 0.00 ft

Wellpath: Original Hole

Drilled From: Surface  
Tie-on Depth: 0.00 ft  
Above System Datum: Mean Sea Level  
Declination: 11.72 deg  
Mag Dip Angle: 65.87 deg  
Direction deg

Current Datum: Est RKB Height 5315.00 ft  
Magnetic Data: 10/26/2006  
Field Strength: 52769 nT  
Vertical Section: Depth From (TVD) ft  
+N/-S ft  
+E/-W ft

8050.00 0.00 0.00 88.95

Plan: Plan #2

Date Composed: 6/15/2006  
Version: 1  
Tied-to: From Surface

Principal: Yes

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	88.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
525.00	0.00	88.95	525.00	0.00	0.00	0.00	0.00	0.00	0.00	
1686.65	34.85	88.95	1616.35	6.25	342.46	3.00	3.00	0.00	88.95	
2747.19	34.85	88.95	2486.69	17.32	948.35	0.00	0.00	0.00	0.00	
3908.81	0.00	88.95	3578.00	23.57	1290.80	3.00	-3.00	0.00	180.00	Vertical Point
8380.81	0.00	88.95	8050.00	23.57	1290.80	0.00	0.00	0.00	88.95	PBHL

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
525.00	0.00	88.95	525.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Start Build 3"/100'
600.00	2.25	88.95	599.98	0.03	1.47	1.47	3.00	3.00	0.00	
700.00	5.25	88.95	699.76	0.15	8.01	8.01	3.00	3.00	0.00	
800.00	8.25	88.95	799.05	0.36	19.76	19.76	3.00	3.00	0.00	
900.00	11.25	88.95	897.60	0.67	36.69	36.70	3.00	3.00	0.00	
1000.00	14.25	88.95	995.12	1.07	58.75	58.76	3.00	3.00	0.00	Hold 34.85°
1100.00	17.25	88.95	1091.35	1.57	85.89	85.90	3.00	3.00	0.00	
1200.00	20.25	88.95	1186.04	2.16	118.02	118.04	3.00	3.00	0.00	
1300.00	23.25	88.95	1278.91	2.83	155.07	155.09	3.00	3.00	0.00	
1400.00	26.25	88.95	1369.71	3.60	196.92	196.95	3.00	3.00	0.00	
1500.00	29.25	88.95	1458.20	4.45	243.47	243.51	3.00	3.00	0.00	
1600.00	32.25	88.95	1544.13	5.38	294.58	294.63	3.00	3.00	0.00	
1686.65	34.85	88.95	1616.35	6.25	342.46	342.51	3.00	3.00	0.00	
1700.00	34.85	88.95	1627.30	6.39	350.08	350.14	0.00	0.00	0.00	
1800.00	34.85	88.95	1709.36	7.44	407.21	407.28	0.00	0.00	0.00	



# Ryan Energy Technologied Planning Report



Company: Dominion Exploration & Product  
Field: Uintah County, Utah  
Site: HCU # 11-33F  
Well: HCU 11-33F  
Wellpath: Original Hole

Date: 10/26/2006 Time: 11:20:59  
Co-ordinate(N/E) Reference: Well: HCU 11-33F, True North  
Vertical (TVD) Reference: Est RKB 5315.0  
Section (VS) Reference: Well (0.00N,0.00E,88.95Azi)  
Plan: Plan #2

Page: 2

## Survey

MD ft	Incl deg	Azin deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1900.00	34.85	88.95	1791.43	8.48	464.34	464.42	0.00	0.00	0.00	
2000.00	34.85	88.95	1873.50	9.52	521.48	521.56	0.00	0.00	0.00	
2100.00	34.85	88.95	1955.56	10.57	578.61	578.70	0.00	0.00	0.00	
2200.00	34.85	88.95	2037.63	11.61	635.74	635.84	0.00	0.00	0.00	
2300.00	34.85	88.95	2119.70	12.65	692.87	692.98	0.00	0.00	0.00	
2400.00	34.85	88.95	2201.76	13.70	750.00	750.13	0.00	0.00	0.00	
2500.00	34.85	88.95	2283.83	14.74	807.13	807.27	0.00	0.00	0.00	
2600.00	34.85	88.95	2365.90	15.78	864.26	864.41	0.00	0.00	0.00	
2700.00	34.85	88.95	2447.96	16.82	921.39	921.55	0.00	0.00	0.00	
2747.19	34.85	88.95	2486.69	17.32	948.35	948.51	0.00	0.00	0.00	Start drop 3"/100
2800.00	33.26	88.95	2530.44	17.86	977.92	978.09	3.00	-3.00	0.00	
2900.00	30.26	88.95	2615.45	18.82	1030.55	1030.72	3.00	-3.00	0.00	
3000.00	27.26	88.95	2703.11	19.70	1078.66	1078.84	3.00	-3.00	0.00	
3100.00	24.26	88.95	2793.15	20.49	1122.11	1122.30	3.00	-3.00	0.00	
3200.00	21.26	88.95	2885.35	21.20	1160.79	1160.99	3.00	-3.00	0.00	
3300.00	18.26	88.95	2979.45	21.81	1194.60	1194.80	3.00	-3.00	0.00	
3400.00	15.26	88.95	3075.19	22.34	1223.44	1223.64	3.00	-3.00	0.00	
3500.00	12.26	88.95	3172.31	22.77	1247.22	1247.43	3.00	-3.00	0.00	
3600.00	9.26	88.95	3270.54	23.12	1265.89	1266.10	3.00	-3.00	0.00	
3700.00	6.26	88.95	3369.61	23.36	1279.40	1279.61	3.00	-3.00	0.00	
3800.00	3.26	88.95	3469.25	23.51	1287.70	1287.92	3.00	-3.00	0.00	
3895.81	0.39	88.95	3565.00	23.57	1290.76	1290.97	3.00	-3.00	0.00	Wasatch Tongue
3908.81	0.00	88.95	3578.00	23.57	1290.80	1291.02	3.00	-3.00	0.00	Vertical Point
4000.00	0.00	88.95	3669.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4100.00	0.00	88.95	3769.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4200.00	0.00	88.95	3869.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4255.81	0.00	88.95	3925.00	23.57	1290.80	1291.02	0.00	0.00	0.00	Intermediate
4265.81	0.00	88.95	3935.00	23.57	1290.80	1291.02	0.00	0.00	0.00	Uteland Limestone
4300.00	0.00	88.95	3969.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4400.00	0.00	88.95	4069.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4425.81	0.00	88.95	4095.00	23.57	1290.80	1291.02	0.00	0.00	0.00	Wasatch
4500.00	0.00	88.95	4169.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4600.00	0.00	88.95	4269.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4700.00	0.00	88.95	4369.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4800.00	0.00	88.95	4469.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
4900.00	0.00	88.95	4569.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5000.00	0.00	88.95	4669.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5100.00	0.00	88.95	4769.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5200.00	0.00	88.95	4869.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5300.00	0.00	88.95	4969.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5325.81	0.00	88.95	4995.00	23.57	1290.80	1291.02	0.00	0.00	0.00	Chapita Wells
5400.00	0.00	88.95	5069.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5500.00	0.00	88.95	5169.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5600.00	0.00	88.95	5269.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5700.00	0.00	88.95	5369.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5800.00	0.00	88.95	5469.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
5900.00	0.00	88.95	5569.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6000.00	0.00	88.95	5669.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6100.00	0.00	88.95	5769.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6200.00	0.00	88.95	5869.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6300.00	0.00	88.95	5969.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6400.00	0.00	88.95	6069.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6500.00	0.00	88.95	6169.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6575.81	0.00	88.95	6245.00	23.57	1290.80	1291.02	0.00	0.00	0.00	Uteland Buttes



# Ryan Energy Technologied

## Planning Report



Company: Dominion Exploration & Product  
Field: Uintah County, Utah  
Site: HCU # 11-33F  
Well: HCU 11-33F  
Wellpath: Original Hole

Date: 10/26/2006 Time: 11:20:59  
Co-ordinate(N/E) Reference: Well: HCU 11-33F, True North  
Vertical (TVD) Reference: Est RKB 5315.0  
Section (VS) Reference: Well (0.00N,0.00E,88.95Azi)  
Plan: Plan #2

Page: 3

### Survey

MD ft	Incl deg	Azin deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6600.00	0.00	88.95	6269.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6700.00	0.00	88.95	6369.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6800.00	0.00	88.95	6469.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
6900.00	0.00	88.95	6569.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7000.00	0.00	88.95	6669.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7100.00	0.00	88.95	6769.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7200.00	0.00	88.95	6869.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7300.00	0.00	88.95	6969.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7400.00	0.00	88.95	7069.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7500.00	0.00	88.95	7169.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7500.81	0.00	88.95	7170.00	23.57	1290.80	1291.02	0.00	0.00	0.00	Mesaverde
7600.00	0.00	88.95	7269.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7700.00	0.00	88.95	7369.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7800.00	0.00	88.95	7469.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
7900.00	0.00	88.95	7569.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
8000.00	0.00	88.95	7669.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
8100.00	0.00	88.95	7769.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
8200.00	0.00	88.95	7869.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
8300.00	0.00	88.95	7969.19	23.57	1290.80	1291.02	0.00	0.00	0.00	
8380.81	0.00	88.95	8050.00	23.57	1290.80	1291.02	0.00	0.00	0.00	PBHL

### Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Vertical Point		3578.00	23.57	1290.80	7138250.81	2152709.13	39 54 6.993 N	109 40 25.546 W
-Plan hit target								
PBHL		8050.00	23.57	1290.80	7138250.81	2152709.13	39 54 6.993 N	109 40 25.546 W
-Plan hit target								

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
4255.81	3925.00	9.625	9.625	Intermediate

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3895.81	3565.00	Wasatch Tongue		0.00	0.00
4265.81	3935.00	Uteland Limestone		0.00	0.00
4425.81	4095.00	Wasatch		0.00	0.00
5325.81	4995.00	Chapita Wells		0.00	0.00
6575.81	6245.00	Uteland Buttes		0.00	0.00
7500.81	7170.00	Mesaverde		0.00	0.00

### Annotation

MD ft	TVD ft	
525.00	525.00	KOP Start Build 3°/100'
1686.65	1616.34	Hold 34.85°
2747.19	2486.69	Start drop 3°/100
3908.81	3578.00	Hold 0°

## DRILLING PLAN

### APPROVAL OF OPERATIONS

#### Attachment for Permit to Drill

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** HCU 11-33F  
SHL: 1996' FSL & 393' FWL Section 33-10S-20E  
BHL: 1995' FSL & 1680' FWL Section 33-10S-20E  
Uintah County, UT

1. GEOLOGIC SURFACE FORMATION Uintah

2. ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS

<u>Formation</u>	<u>Depth (MD)</u>
Wasatch Tongue	3,896'
Uteland Limestone	4,266'
Wasatch	4,426'
Chapita Wells	5,325'
Uteland Buttes	6,575'
Mesaverde	7,501'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>Formation</u>	<u>Depth (MD)</u>	<u>Type</u>
Wasatch Tongue	3,896'	Oil
Uteland Limestone	4,266'	Oil
Wasatch	4,426'	Gas
Chapita Wells	5,325'	Gas
Uteland Buttes	6,575'	Gas
Mesaerde	7,501	Gas

4. PROPOSED CASING PROGRAM

All casing used to drill this well will be new casing.

<u>Type</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Top</u>	<u>Bottom (MD)</u>	<u>Hole</u>
Surface	13-3/8"	48.0 ppf	H-40	STC	0'	500'	17-1/2"
Intermediate	9-5/8"	36.0 ppf	J-55	LTC	0'	4,256'	12-1/4"
Production	5-1/2"	17.0 ppf	MAV-80	LTC	0'	8,381'	7-7/8"

5. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Surface hole: No BOPE will be utilized.

Intermediate hole: To be drilled using a diverter stack with rotating head to divert flow from rig floor.

Production hole: Prior to drilling out the intermediate casing shoe, 3,000 psi or greater BOP equipment will be installed. The pipe rams will be operated at least once per day from intermediate casing to total depth. The blind rams will be tested once per day from intermediate casing to total depth if operations permit.

## DRILLING PLAN

### APPROVAL OF OPERATIONS

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 3,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling below the intermediate casing shoe. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	3,000 psi
3.	Kill line valves	3,000 psi
4.	Choke line valves and choke manifold valves	3,000 psi
5.	Chokes	3,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	3,000 psi
8.	Dart valve	3,000 psi

#### 6. MUD SYSTEMS

- An air or an air/mist system may be used to drill to drill the surface hole until water influx becomes too great.
- KCL mud system will be used to drill well.

<u>Depths (MD)</u>	<u>Mud Weight (ppg)</u>	<u>Mud System</u>
0' – 500'	8.4	Air foam mist, no pressure control
500' – 4,256'	8.6	Fresh water, rotating head and diverter
4,256' – 8,381'	8.6	Fresh water/2% KCL/KCL mud system

#### 7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a constant ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 100' from the wellhead.

#### 8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string.

#### 9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- A drillstem test in the Wasatch Tongue is possible.
- One electric line wire-log will be run from total depth to intermediate casing.
- The gamma ray will be left on to record from total depth to intermediate casing.
- Other log curves (resistivities, porosity, and caliper) will record from total depth to intermediate casing.
- A dipmeter, percussion cores, or rotary cores may be run over selected intervals.

#### 10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- Expected BHP 1,500–2,000 psi (lower than normal pressure gradient).
- No abnormal temperature or pressures are anticipated.
- The formations to be penetrated do not contain known H<sub>2</sub>S gas.

#### 11. WATER SUPPLY

- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.
- Water will be hauled from: Water Permit # 43-10447 Section 9, Township 8 South, Range 20 East

## DRILLING PLAN

### APPROVAL OF OPERATIONS

#### 12. CEMENT SYSTEMS

##### a. Surface Cement:

Drill 17-1/2" hole to 500' and cement 13-3/8" to surface with 450 sks class "C" cement with 2% CaCl<sub>2</sub> and 1/4 #/sk. Poly-E-Flakes (volume includes 40% excess). Top out if necessary with Top Out cement listed below.

##### b. Intermediate Casing Cement:

- Drill 12-1/4" hole to 4,256 (MD)'±, run and cement 9-5/8" to surface.
- Pump 20 bbls lightly weighted water spacer followed by 5 bbls fresh water. Displace with any available water.
- Casing to be run with: a) guide shoe b) insert float c) three (3) centralizers, one on each of first 3 joints d) stop ring for plug two joints off bottom e) bottom three joints thread locked f) pump job with bottom plug only.
- Cement to surface not required due to surface casing set deeper than normal.

Type	Sacks	Interval (MD)	Density	Yield	Hole Volume	Cement Volume	Excess
Lead	513	0'-3,756'	11.0 ppg	3.82 CFS	1214 CF	2,125 CF	75%
Tail	254	3,756'-4,256'	15.6 ppg	1.20 CFS	174 CF	304 CF	75%

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.82 cf/sack      Slurry weight: 11.00 #/gal.  
Water requirement: 22.95 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.  
Pump Time: 1 hr. 5 min. @ 90 °F.  
Compressives @ 95 °F: 24 Hour is 4,700 psi

##### c. Production Casing Cement:

- Drill 7-7/8" hole to 8,381' (MD)'±, run and cement 5 1/2".
- Cement interface is at 3,700', which is typically 500'-1,000' above shallowest pay.
- Pump 20 bbl Mud Clean II unweighted spacer, followed by 20 Bbls fresh H2O spacer.
- Displace with 3% KCL.

Type	Sacks	Interval (MD)	Density	Yield	Hole Volume	Cement Volume	Excess
Lead	90	3,626'-4,426'	11.5 ppg	3.12 CFS	139 CF	277 CF	100%
Tail	790	4,426'-8,381'	13.0 ppg	1.75 CFS	685 CF	1370 CF	100%

Note: Caliper will be run to determine exact cement volume.

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.12 cf/sack      Slurry weight: 11.60 #/gal.  
Water requirement: 17.71 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Halliburton HLC blend (Prem Plus V/JB flyash). Blend includes Class "G" cement, KCl, EX-1, Halad 322, & HR-5.  
Slurry yield: 1.75 cf/sack      Slurry weight: 13.00 #/gal.  
Water requirement: 9.09 gal/sack  
Compressives @ 165°F: 905 psi after 24 hours

#### 13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

Starting Date: February 1, 2006  
Duration: 14 Days

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## DIVISION OF OIL, GAS AND MINING

### SPUDDING INFORMATION

Name of Company: DOMINION EXPL & PROD INC

Well Name: HCU 11-33F

Api No: 43-047-37360 Lease Type: FEDERAL

Section 33 Township 10S Range 20E County UINTAH

Drilling Contractor BILL JR'S RIG # 6

### SPUDDED:

Date 12/03/06

Time 4:00 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by PAT WISENER

Telephone # (435) 828-1455

Date 12/04/2006 Signed CHD



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Dominion Exploration & Production, Inc.  
Address: 14000 Quail Springs Parkway, Suite 600  
city Oklahoma City  
state OK zip 73134

Operator Account Number: N 1095

Phone Number: (405) 749-5237

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-047-37360	HCU 11-33F	NWSW	33	10S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<i>KB</i>	<i>99999</i>	<i>12829</i>	<i>12/3/2006</i>	<i>12/31/06</i>		
Comments: <i>MYRD = WSMVD</i> <i>BHL = NESW</i>						

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Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Barbara Lester

Name (Please Print)

*Barbara Lester*

Signature

Regulatory Specialist

Title

12/13/2006

Date

(5/2000)

RECEIVED

DEC 13 2006

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

*Submit in triplicate. Other instructions on reverse side.*

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

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2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address

14000 Quail Springs Pkwy, Ste 600, OKC, OK 73134

3b. Phone No. (include area code)

(405) 749-5237

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 1966' FSL & 393' FWL, NW SW, Sec. 33-10S-20E

BHL: 1995' FSL & 1680' FWL, NE SW, Sec. 33-10S-20E

5. Lease Serial No.

U-28203

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Hill Creek Unit

8. Well Name and No.

HCU 11-33F

9. API Well No.

43-047-37360

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other
			Spud Well

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

12/3/06 - Spud well. Ran 12 jts. 13 3/8", H-40, 48#, ST&C csg set @ 525'. Cemented w/500 sks Class "G", 15.8 ppg, 1/15 yld. Good returns. 10 bbls cement to pit.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Barbara Lester

Title Regulatory Specialist

Signature

*Barbara Lester*

Date 12/13/2006

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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## FACSIMILE COVER PAGE

**To :** Utah Division of Oil, Gas & Mining

**From :** g

**Sent :** 1/11/2007 at 2:14:02 PM

**Pages :** 2 (including Cover)

**Subject :** HCU 11-33F *T105 R20E S-33 43-041-37360*

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JAN 11 2007

DIV. OF OIL, GAS & MINING

**WELL CHRONOLOGY REPORT****CONFIDENTIAL****WELL NAME : HCU 11-33F**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318

SPUD DATE : 12/03/06

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$130,621.00

EVENT CC : \$0.00

EVENT TC : \$130,621.00

WELL TOTL COST : \$130,621

REPORT DATE: 12/05/06

MD : 525

TVD : 525

DAYS :

MW :

VISC :

DAILY : DC : \$130,621.00

CC : \$0.00

TC : \$130,621.00

CUM : DC : \$130,621.00

CC : \$0.00

TC : \$130,621.00

DAILY DETAILS : MIRU BILL JRS # 6. SPUD WELL ON 12-3-06 @ 4:00 PM. DRILL 550' OF 17.5" HOLE. RUN & SET 525' OF 13.375", 48#, H-40 CSGN. CEMENT W/ 500 SKS TAIL MIXED @ 15.8 PPG & 1.15 YLD. W/ GOOD RETURNS AND 10 BBLS CEMENT TO PIT.

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DIV. OF OIL, GAS &amp; MINING

## FACSIMILE COVER PAGE

**To :** Utah Division of Oil, Gas & Mining

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**Pages :** 2 (including Cover)

**Subject :** HCU 11-33F *T10SR20ES-33 43-047-37360*

*60 11-33F*

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JAN 17 2007

DIV. OF OIL, GAS & MINING

**WELL CHRONOLOGY REPORT**

CONFIDENTIAL

**WELL NAME : HCU 11-33F**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318

SPUD DATE : 12/03/06

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EVENT TC : \$130,621.00

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REPORT DATE: 12/05/06

MD : 525

TVD : 525

DAYS :

MW :

VISC :

DAILY : DC : \$130,621.00

CC : \$0.00

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CUM : DC : \$130,621.00

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TC : \$130,621.00

DAILY DETAILS: MIRU BILL JRS # 6. SPUD WELL ON 12-3-06 @ 4:00 PM. DRILL 550' OF 17.5" HOLE. RUN & SET 525' OF 13.375", 48#, H-40 CSGN. CEMENT W/ 500 SKS TAIL MIXED @ 15.8 PPG & 1.15 YLD. W/ GOOD RETURNS AND 10 BBLs CEMENT TO PIT.

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**From :** g

**Sent :** 1/24/2007 at 12:42:30 PM

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43-047-37360  
33 LOS 20e

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JAN 24 2007

DIV. OF OIL, GAS & MINING



## WELL CHRONOLOGY REPORT

CONFIDENTIAL

**WELL NAME : HCU 11-33F**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318 SPUD DATE :

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$736,021.00

EVENT CC : \$0.00

EVENT TC : \$736,021.00

WELL TOTL COST: \$736,021

**REPORT DATE: 12/05/06**

MD : 525

TVD : 525

DAYS :

MW :

VISC :

DAILY : DC : \$130,621.00

CC : \$0.00

TC : \$130,621.00

CUM : DC : \$130,621.00

CC : \$0.00

TC : \$130,621.00

DAILY DETAILS : MIRU BILL JRS # 6. SPUD WELL ON 12-3-06 @ 4:00 PM. DRILL 550' OF 17.5" HOLE. RUN & SET 525' OF 13.375", 48#, H-40 CSGN. CEMENT W/ 500 SKS TAIL MIXED @ 15.8 PPG & 1.15 YLD. W/ GOOD RETURNS AND 10 BBLs CEMENT TO PIT.

**REPORT DATE: 01/23/07**

MD : 530

TVD : 530

DAYS :

MW : 9.1

VISC : 36

DAILY : DC : \$302,700.00

CC : \$0.00

TC : \$302,700.00

CUM : DC : \$433,321.00

CC : \$0.00

TC : \$433,321.00

DAILY DETAILS : SLIDE RIG AND RU / NO NIGHT TOUR

**REPORT DATE: 01/24/07**

MD : 530

TVD : 530

DAYS :

MW : 9.1

VISC : 36

DAILY : DC : \$302,700.00

CC : \$0.00

TC : \$302,700.00

CUM : DC : \$736,021.00

CC : \$0.00

TC : \$736,021.00

DAILY DETAILS : RU RIG MAKE FLOWLINE NO MORNING TOUR OR PUSHER

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## FACSIMILE COVER PAGE

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43-047-37360  
33 105 20e

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JAN 31 2007

DIV. OF OIL, GAS & MINING



## WELL CHRONOLOGY REPORT

**WELL NAME : HCU 11-33F**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318 SPUD DATE :

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$783,941.00

EVENT CC : \$0.00

EVENT TC : \$783,941.00

WELL TOTL COST : \$783,941

REPORT DATE: 01/24/07 MD : 530 TVD : 530 DAYS : MW : 9.1 VISC : 36  
 DAILY : DC : \$52,700.00 CC : \$0.00 TC : \$52,700.00 CUM : DC : \$486,021.00 CC : \$0.00 TC : \$486,021.00  
 DAILY DETAILS : RU RIG MAKE FLOWLINE NO MORNING TOUR OR PUSHER

REPORT DATE: 01/25/07 MD : 530 TVD : 530 DAYS : MW : 9.1 VISC : 36  
 DAILY : DC : \$52,700.00 CC : \$0.00 TC : \$52,700.00 CUM : DC : \$538,721.00 CC : \$0.00 TC : \$538,721.00  
 DAILY DETAILS : WORK ON AND REPAIR RIG

REPORT DATE: 01/26/07 MD : 530 TVD : 530 DAYS : MW : 9.1 VISC : 36  
 DAILY : DC : \$52,700.00 CC : \$0.00 TC : \$52,700.00 CUM : DC : \$591,421.00 CC : \$0.00 TC : \$591,421.00  
 DAILY DETAILS : WORK ON RIG

REPORT DATE: 01/27/07 MD : 530 TVD : 530 DAYS : MW : 9 VISC : 31  
 DAILY : DC : \$33,950.00 CC : \$0.00 TC : \$33,950.00 CUM : DC : \$625,371.00 CC : \$0.00 TC : \$625,371.00  
 DAILY DETAILS : REPAIR SAFETY ITEMS ON RIG RE MUD UP PU 8" DIREC TOOLS AND TIH DRLG CEMENT, FLT AND SHOE

REPORT DATE: 01/28/07 MD : 1,037 TVD : 1,037 DAYS : MW : 9 VISC : 33  
 DAILY : DC : \$37,595.00 CC : \$0.00 TC : \$37,595.00 CUM : DC : \$662,966.00 CC : \$0.00 TC : \$662,966.00  
 DAILY DETAILS : WORK ON PUMPS DRLG CEMENT FLT AND SHOE DIREC DRLG F/ 530 TO 633 WORK ON PUMPS DIREC DRLG F/ 633 TO 709 WORK ON PUMPS DIREC DRLG F/ 709 TO 913 RIG SERVICE DIREC DRLG F/ 913 TO 1037

REPORT DATE: 01/29/07 MD : 1,609 TVD : 1,609 DAYS : MW : 9.2 VISC : 33  
 DAILY : DC : \$34,910.00 CC : \$0.00 TC : \$34,910.00 CUM : DC : \$697,876.00 CC : \$0.00 TC : \$697,876.00  
 DAILY DETAILS : DRLG F/ 1037 TO 1069 RIG SERVICE DIREC DRLG F/ 1069 TO 1290 REPAIR PUMPS DIREC DRLG F/ 1290 TO 1311 WORK ON PUMPS ( SUCKED PIT DRY ) DIREC DRLG F/ 1311 TO 1493 WORK ON PUMP DIREC DRLG F/ 1493 TO 1609

REPORT DATE: 01/30/07 MD : 2,326 TVD : 2,126 DAYS : MW : 9 VISC : 31  
 DAILY : DC : \$48,490.00 CC : \$0.00 TC : \$48,490.00 CUM : DC : \$746,366.00 CC : \$0.00 TC : \$746,366.00  
 DAILY DETAILS : DIREC DRLG F/ 1609 TP 1779 REFILL PITS W/ WATER, DRAINED OUT THROUGH SAND TRAP DIREC DRLG F/ 1779 TO 2326

REPORT DATE: 01/31/07 MD : 2,546 TVD : 2,346 DAYS : MW : 9.2 VISC : 31  
 DAILY : DC : \$37,575.00 CC : \$0.00 TC : \$37,575.00 CUM : DC : \$783,941.00 CC : \$0.00 TC : \$783,941.00  
 DAILY DETAILS : DIREC DRLG F/ 2346 TO 2421 REPAIR CLUTCH #2 PUMP DIREC DRLG F/ 2421 TO 2546 WORK ON PUMPS TOOH WORK ON PUMPS AND CLEAN PITS

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## WELL CHRONOLOGY REPORT

**WELL NAME : HCU 11-33F**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318

SPUD DATE :

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$1,074,725.01

EVENT CC : \$0.00

EVENT TC : \$1,074,725.01

WELL TOTL COST : \$1,074,725

**REPORT DATE: 01/31/07**

MD : 2,546

TVD : 2,346

DAYS :

MW : 9.2

VISC : 31

DAILY : DC : \$37,575.00

CC : \$0.00

TC : \$37,575.00

CUM : DC : \$783,941.00

CC : \$0.00

TC : \$783,941.00

DAILY DETAILS : DIREC DRLG F/ 2346 TO 2421 REPAIR CLUTCH #2 PUMP DIREC DRLG F/ 2421 TO 2546 WORK ON PUMPS  
TOOH WORK ON PUMPS AND CLEAN PITS

**REPORT DATE: 02/01/07**

MD : 2,886

TVD : 2,586

DAYS :

MW : 9.1

VISC : 42

DAILY : DC : \$39,680.00

CC : \$0.00

TC : \$39,680.00

CUM : DC : \$823,621.00

CC : \$0.00

TC : \$823,621.00

DAILY DETAILS : MIX MUD TIH WORK ON PUMPS TIH DIREC DRLG F/ 2546 TO 2734 TRIP OUT FOR SCREEN 4 JTS DRLG F/ 2734  
TO 2886 REPAIR MUD PUMP

**REPORT DATE: 02/02/07**

MD : 2,886

TVD : 2,586

DAYS :

MW : 9.1

VISC : 42

DAILY : DC : \$36,580.00

CC : \$0.00

TC : \$36,580.00

CUM : DC : \$860,201.00

CC : \$0.00

TC : \$860,201.00

DAILY DETAILS : REPAIR POP OFF LINE DIREC DRLG F/ 2886 TO 3245 BUILD VOLUME , HAND RAN TANKS OUT OF MUD OVER  
SHAKER DIREC DRLG

**REPORT DATE: 02/03/07**

MD : 2,886

TVD : 2,586

DAYS :

MW : 9.1

VISC : 34

DAILY : DC : \$36,580.00

CC : \$0.00

TC : \$36,580.00

CUM : DC : \$896,781.00

CC : \$0.00

TC : \$896,781.00

DAILY DETAILS : DRLG F/ 3226 TO 3363 WORK ON PUMPS RIG SERVICE DIREC DRLG F/ 3226 TO 3526 WORK STUCK PIPE

**REPORT DATE: 02/04/07**

MD : 3,526

TVD : 3,226

DAYS :

MW : 9.1

VISC : 42

DAILY : DC : \$47,995.00

CC : \$0.00

TC : \$47,995.00

CUM : DC : \$944,776.00

CC : \$0.00

TC : \$944,776.00

DAILY DETAILS : REMOVE GOOSE NECK TO RUN WIRELINE RU WIRELINE SHOOT OFF KELLY TO REMOVE SCREEN RUN  
FREE POINT, 2610', RUN BACK OFF SHOT TO BTM OF 3RD JT OF HWDP BO AND TOOH  
TOOH RIG SERVICE  
TIH W/ FISHING ASSEM JAR ON FISH , SIS, BS, JARS, 4 COLLARS, 2 HWDP, INTENSIFIER

**REPORT DATE: 02/05/07**

MD : 3,526

TVD : 3,226

DAYS :

MW : 8.9

VISC : 32

DAILY : DC : \$39,680.00

CC : \$0.00

TC : \$39,680.00

CUM : DC : \$984,456.00

CC : \$0.00

TC : \$984,456.00

DAILY DETAILS : JAR ON FISH RUN FREE POINT, STILL STUCK @ 2610 WAIT FOR CIRC SWEDGE CIRC MUD OUT OF HOLE W/  
FRESH WATER  
JAR ON FISH TOOH W/ FISH RIG SERVICE TIH BUILD VOLUME CIRC AND BUILD VOLUME TOOH  
RU CSG CREW

**REPORT DATE: 02/06/07**

MD : 3,526

TVD : 3,226

DAYS :

MW : 8.9

VISC : 32

DAILY : DC : \$90,269.01

CC : \$0.00

TC : \$90,269.01

CUM : DC : \$1,074,725.01

CC : \$0.00

TC : \$1,074,725.01

DAILY DETAILS : RUN 80 JTS OF 9 5/8, 36#, J-55, ST&C 8RD CSG TO 3479'KB CIRC ( NO RETURNS) RD CSG CREW RU AND  
CEMENT W/ 450 SKS OF LEAD W/ 16% GEL, 3% SALT, 3#/SK GR-3, 10#/SK GILSONITE, 1/4#/SK FLOCELE, 11  
PPG, 3.82 CUFT/SK, 23 GAL WATER/SK, FOLLOWED BY 250 KS OF TAIL W/ 2% CAL CHLOR, 1/4#/SK FLOCELE,  
BUMPED PLUG FLOATS HELD, TOP OUT W/ 350 SKS OF TAIL W/ 4% CAL CHLOR, 1/4#/SK FLOCELE NU BOPE  
TEST BOPE

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## WELL CHRONOLOGY REPORT

CONFIDENTIAL

## WELL NAME : HCU 11-33F

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318

SPUD DATE :

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$1,465,175.01

EVENT CC : \$0.00

EVENT TC : \$1,465,175.01

WELL TOTL COST : \$1,465,175

REPORT DATE: 02/07/07

MD : 3,535

TVD : 3,235

DAYS :

MW : 8.9

VISC : 32

DAILY : DC : \$43,950.00

CC : \$0.00

TC : \$43,950.00

CUM : DC : \$1,118,675.01

CC : \$0.00

TC : \$1,118,675.01

DAILY DETAILS : TEST BOPE PU DIREC TOOLS AND TIH DRLG CEMENT AND FLOAT RIG SERVICE DRLG CEMENT AND SHOE TO 3479' DRLG F/ 3525 TO 3535 W/ NO PUMP STUCK IN HOLE WORK STUCK PIPE BACK OFF KELLY TO RETRIEVE SCREEN, RETRIEVE MWD, RUN FREE POINT FREE TO MOTOR BACK OFF ON TOP OF NMDC TO STAY IN CSG TOOH TO PU FISHING TOOLS

REPORT DATE: 02/08/07

MD : 3,535

TVD : 3,235

DAYS :

MW : 8.9

VISC : 32

DAILY : DC : \$43,950.00

CC : \$0.00

TC : \$43,950.00

CUM : DC : \$1,162,625.01

CC : \$0.00

TC : \$1,162,625.01

DAILY DETAILS : TOOH RIG SERVICE PU TOOLS AND TIH TO JAR WASH DOWN TO FISH JAR ON FISH, CHECK DERRICK FOR LOOSE PINS RU WIRELINE TO BACK OFF, COLLAR PLUGGED RUN IN W/ SPUD BAR AND PACK TO BELOW CONNECTION AT SCREW IN SUB, BACK OFF @ SCREW IN SUB TOOH PU WASH PIPE AND TIH

REPORT DATE: 02/09/07

MD : 3,535

TVD : 3,235

DAYS :

MW : 8.9

VISC : 32

DAILY : DC : \$43,950.00

CC : \$0.00

TC : \$43,950.00

CUM : DC : \$1,206,575.01

CC : \$0.00

TC : \$1,206,575.01

DAILY DETAILS : WASH OVER FISH CHG WASH PIPE WASH OVER FISH TOOH LD WP PU WASH PIPE AND TIH WASH OVER FISH TO BEND IN MOTOR 3530' TOOH LD WP AND PU SCREW IN SUB TIH

REPORT DATE: 02/10/07

MD : 3,535

TVD : 3,235

DAYS :

MW : 8.9

VISC :

DAILY : DC : \$43,950.00

CC : \$0.00

TC : \$43,950.00

CUM : DC : \$1,250,525.01

CC : \$0.00

TC : \$1,250,525.01

DAILY DETAILS : JARRING ON FISH CHECK DERRICK JAR ON FISH RIG IP BO TRUCK AND BO AT SCREW IN SUB 3470' TOOH TO PU WP PU WASH PIPE TIH WASH OVER FISH TO 3533 CIRC

REPORT DATE: 02/11/07

MD : 3,535

TVD : 3,235

DAYS :

MW : 8.6

VISC : 26

DAILY : DC : \$43,950.00

CC : \$0.00

TC : \$43,950.00

CUM : DC : \$1,294,475.01

CC : \$0.00

TC : \$1,294,475.01

DAILY DETAILS : TOOH REPLACE BREAKOUT CONTROL/ HURT 2 HANDS 1 LAST NIGHT AND 1 THIS MORNING TOOH LD WASH PIPE TIH W/ SCREW IN SUB AND SCREW IN TO FISH JAR ON FISH TOOH W/ FISH, FISH WAS CEMENTED IN HOLE PU DIREC TOOLS AND TIH. TEST MWD AND HANG BLOCKS TO CUT DRLG LINE

REPORT DATE: 02/12/07

MD : 4,554

TVD : 4,200

DAYS :

MW : 8.6

VISC :

DAILY : DC : \$93,950.00

CC : \$0.00

TC : \$93,950.00

CUM : DC : \$1,388,425.01

CC : \$0.00

TC : \$1,388,425.01

DAILY DETAILS : CUT 250' DRLG LINE PU 16# PIPE TIH AND WASH AND REAM TO 3535' DIREC DRLG F/ 3535 TO 3705 RIG SERVICE DIREC DRLG F/ 3705 TO 4554

REPORT DATE: 02/13/07

MD : 5,622

TVD : 5,300

DAYS :

MW : 9.2

VISC : 30

DAILY : DC : \$33,950.00

CC : \$0.00

TC : \$33,950.00

CUM : DC : \$1,422,375.01

CC : \$0.00

TC : \$1,422,375.01

DAILY DETAILS : DIREC DRLG F/ 4617 TO 4994 CIRC PUMP PILL TOOH LD DIREC AND PU MOTOR TIH DRLG F/ 4994 TO 5622

REPORT DATE: 02/14/07

MD : 6,812

TVD : 6,500

DAYS :

MW : 9.1

VISC : 29

DAILY : DC : \$42,800.00

CC : \$0.00

TC : \$42,800.00

CUM : DC : \$1,465,175.01

CC : \$0.00

TC : \$1,465,175.01

DAILY DETAILS : DRLG F/ 5622 TO 6232 CIRC F/ SURVEY SURVEY @ 6232 2 DEG 20 AZ DRLG F/ 6232 TO 6812

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**WELL CHRONOLOGY REPORT****WELL NAME : HCU 11-33F**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318 SPUD DATE :

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$1,541,975.01

EVENT CC : \$0.00

EVENT TC : \$1,541,975.01

WELL TOTL COST : \$1,541,975

**REPORT DATE: 02/14/07**

MD : 6,812

TVD : 6,500

DAYS :

MW : 9.1

VISC : 29

DAILY : DC : \$42,800.00

CC : \$0.00

TC : \$42,800.00

CUM : DC : \$1,465,175.01

CC : \$0.00

TC : \$1,465,175.01

DAILY DETAILS : DRLG F/ 5622 TO 6232 CIRC F/ SURVEY SURVEY @ 6232 2 DEG 20 AZ DRLG F/ 6232 TO 6812

**REPORT DATE: 02/15/07**

MD : 7,594

TVD : 7,294

DAYS :

MW : 9.4

VISC : 30

DAILY : DC : \$38,400.00

CC : \$0.00

TC : \$38,400.00

CUM : DC : \$1,503,575.01

CC : \$0.00

TC : \$1,503,575.01

DAILY DETAILS : DRLG F/ 6812 TO 7030 SERVICE RIG DRLG F/ 7030 TO 7124 CIRC MUD AIRED UP DRLG F/ 7124 TO 7594

**REPORT DATE: 02/16/07**

MD : 8,400

TVD : 8,050

DAYS :

MW : 9.2

VISC : 29

DAILY : DC : \$38,400.00

CC : \$0.00

TC : \$38,400.00

CUM : DC : \$1,541,975.01

CC : \$0.00

TC : \$1,541,975.01

DAILY DETAILS : DRLG F/ 7594 TO 7957 RIG SERVICE DRLG F/ 7957 TO 8400

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## WELL CHRONOLOGY REPORT

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**WELL NAME : HCU 11-33F**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318

SPUD DATE : 12/03/06

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$1,816,525.01

EVENT CC : \$299,090.00

EVENT TC : \$2,115,615.01

WELL TOTL COST : \$2,115,615

**REPORT DATE: 02/17/07**

MD : 8,400

TVD : 8,050

DAYS :

MW : 9.2

VISC : 36

DAILY : DC : \$61,400.00

CC : \$0.00

TC : \$61,400.00

CUM : DC : \$1,603,375.01

CC : \$0.00

TC : \$1,603,375.01

DAILY DETAILS : CIRC F/ LOGS TOO H F/ LOGS PUMP OUT 14 SINGLES RIG UP LOGGERS LOGGING TO 7980 HIT BRIDGE  
PULLING TIGHT RD LOGGERS TIH

**REPORT DATE: 02/18/07**

MD : 8,400

TVD : 8,050

DAYS :

MW : 9.5

VISC : 38

DAILY : DC : \$213,150.00

CC : \$0.00

TC : \$213,150.00

CUM : DC : \$1,816,525.01

CC : \$0.00

TC : \$1,816,525.01

DAILY DETAILS : TIH CIRC AND COND MUD, RIG CREW ADDED FRESH WATER AND DILUTED MUD LD DP AND BHA RU CSG  
CREW WAIT ON NEW ELEVATORS, 1ST SET WOULD NOT LATCH RUN 196 JTS OF 5 1/2 17# M-80 LT&C 8RD  
CSG TO 8316' KB, HAD TIGHT SPOTS @ 3600' AND COULD NOT GET LAST JT AND LANDING JT IN CSG SET @  
8316 , FC @ 8271 KB RD CSG AND RU CEMENTERS CEMENT WELL W/ 100 SKS OF LEAD W/ 16% GEL, 3%  
SALT, 3#/SK GR-3, 10#/SK GILSONITE, 1/4#/SK FLOCELE, 11 PPG, 3.82 CUFT/SK, 23 GAL WATER/SK,  
FOLLOWED BY 625 SKS OF TYPE V W/ 65% CEMENT, 35% POZ, 6% GEL, 10% SALT, .6% FLUID CONTROL, 1/4  
#/SK FLOCELE, 13 PPG, 1.85 CUFT/SK, 9.7 GAL WATER/SK, DISP W/ 194 BBLS OF 2% KCL, BUMPED PLUG W/  
1500 PSI UP TO 2000, CHECK PLUG FLT HELD RD CEMENTERS PU BOP AND SET SLIPS, ND BOPE AND CLEAN  
PITS, RIG RELEASED @ 00:00 02/18/2007 RIG RELEASED @ 00:00 2-18-2007 AND WILL NOT BE ON ANOTHER  
WELL F/ DOMINION

**REPORT DATE: 02/22/07**

MD : 8,400

TVD : 8,050

DAYS :

MW : 9.5

VISC : 38

DAILY : DC : \$0.00

CC : \$11,263.00

TC : \$11,263.00

CUM : DC : \$1,816,525.01

CC : \$11,263.00

TC : \$1,827,788.01

DAILY DETAILS : MIRU SCHLUMBERGER WIRE LINE AND ACTION HOT OIL SERVICE. RUN CMT BOND LOG UNDER 1500#  
PRESSURE FROM W.L. PBT D @ 8254' KB TO 2300' KB, FOUND CMT TOP @ 2530' KB. POOH W/ WIRE LINE,  
AND PRESSURE TESTED CSG TO 5000 PSI, HELD GOOD. SHUT WELL IN, RDMO WIRE LINE AND HOT OILIER.  
WAIT ON PERFORATING ORDERS.

**REPORT DATE: 02/24/07**

MD : 8,400

TVD : 8,050

DAYS :

MW : 9.5

VISC : 38

DAILY : DC : \$0.00

CC : \$12,100.00

TC : \$12,100.00

CUM : DC : \$1,816,525.01

CC : \$23,363.00

TC : \$1,839,888.01

DAILY DETAILS : MIRU SCHLUMBERGER WIRELINE, RIH AND PERFORATE STG #1. RDMO WIRELINE, WAIT ON FRAC DATE.

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**WELL CHRONOLOGY REPORT****WELL NAME : HCU 11-33F**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

COUNTY &amp; STATE : UINTAH

UT

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

CONTRACTOR :

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

PLAN DEPTH : 8,318 SPUD DATE : 12/03/06

EVENT DC: \$1,816,525.01

EVENT CC: \$299,090.00

EVENT TC: \$2,115,615.01

WELL TOTL COST: \$2,115,615

REPORT DATE: 02/28/07

MD : 8,400

TVD : 8,050

DAYS :

MW : 9.5

VISC : 38

DAILY : DC : \$0.00

CC : \$275,727.00

TC : \$275,727.00

CUM : DC: \$1,816,525.01

CC : \$299,090.00

TC : \$2,115,615.01

DAILY DETAILS :

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## WELL CHRONOLOGY REPORT

**WELL NAME : HCU 11-33F**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318

SPUD DATE : 12/03/06

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$1,816,525.01

EVENT CC : \$299,090.00

EVENT TC : \$2,115,615.01

WELL TOTL COST : \$2,115,615

02-27-07 HCU 11-33F. MIRU SCHLUMBERGER frac equipment, tested lines to 7000 psi. Held safety meeting with all personnel. Quality control on gel & breaker systems with on-site lab was verified. Frac'd Mesa Verde Interval # 1, 8106-20', 8138-66', 2 spf, 86 holes, with 56,296# 20/40 PR6000 sand. Pumped frac at an average rate of 36.3 bpm, using 295.1 mscf of N2 and 660 bbls of fluid. Average surface treating pressure was 3420 psi with sand concentrations stair stepping from 1.0 ppg to 4.0 ppg.

4550 gallons Pad YF120ST/N2 gel.

4609 gallons YF120ST/N2 pumped @ 1.0 ppg sand concentration.

4640 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.

4584 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.

4699 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

4496 gallons WF110 slick water flush.

Total frac fluid pumped 660 bbls. N2 was cut during flush. RIH and set 8K frac plug @ 8090', perforate interval #2 @ 7944-46', 7976-80', 8011-30', 8060-66', 2 spf, 66 holes. Fraced interval #2 w/ 84326# 20/40 PR6000 sand. Pumped frac at an avg rate of 41.4 bpm, using 422.7 mscf of N2 and 901 bbls of fluid. Avg surface treating pressure was 4994 psi w/ sand concentrations stair stepping from 1.0 ppg to 4.0 ppg.

5578 gallons Pad YF120ST/N2 gel.

4233 gallons YF120ST/N2 pumped @ 1.0 ppg sand concentration.

4925 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.

5616 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.

7788 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

7716 gallons WF110 slick water flush.

Total frac fluid pumped 901 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 7920', perforate interval #3 @ 7881-97', 4 spf, 65 holes. Fraced interval #3 w/ 66,090# 20/40 Ottawa sand. Pumped frac at an avg rate of 32.3 bpm, using 221.4 mscf of N2 and 573 bbls of fluid. Avg surface treating pressure was 4434 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

3485 gallons Pad YF120ST/N2 gel.

2147 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.

2118 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.

2113 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

2815 gallons YF120ST/N2 pumped @ 5.0 ppg sand concentration.

2654 gallons YF120ST/N2 pumped @ 6.0 ppg sand concentration.

7631 gallons WF110 slick water flush.

Total frac fluid pumped 573 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 7620', perforate interval #4 @ 7143-55', 7357-71', 2 spf 54 holes. Fraced interval #4 w/ 60,923# 20/40 Ottawa sand. Pumped frac at an avg rate of 32.8 bpm, using 202.7 mscf of N2 and 523 bbls of fluid. Avg surface treating pressure was 3567 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

3493 gallons Pad YF115ST/N2 gel.

2143 gallons pumped YF115ST/N2 @ 2.0 ppg sand concentration.

2119 gallons pumped YF115ST/N2 @ 3.0 ppg sand concentration.

2116 gallons pumped YF115ST/N2 @ 4.0 ppg sand concentration.

2114 gallons pumped YF115ST/N2 @ 5.0 ppg sand concentration.

2667 gallons pumped YF115ST/N2 @ 6.0 ppg sand concentration.

6900 gallons WF110 slick water flush.

Total frac fluid pumped 523 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 6230', perforate interval #5 @ 5891-99', 5988-98', 3 spf 56 holes. Fraced interval #5 w/ 50,453# 20/40 Ottawa sand. Pumped frac at an avg rate of 32.2 bpm, using 189 mscf of N2 and 436 bbls of fluid. Avg surface treating pressure was 3003 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

2785 gallons Pad YF115ST/N2 gel.

2145 gallons pumped YF115ST/N2 @ 2.0 ppg sand concentration.

2116 gallons pumped YF115ST/N2 @ 3.0 ppg sand concentration.

2117 gallons pumped YF115ST/N2 @ 4.0 ppg sand concentration.

3309 gallons pumped YF115ST/N2 @ 6.0 ppg sand concentration.

4252 gallons WF110/N2 slick water flush.

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FEB 28 2007

DIV. OF OIL, GAS & MINING

**WELL CHRONOLOGY REPORT****WELL NAME : HCU 11-33F**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

COUNTY &amp; STATE : UINTAH

UT

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

CONTRACTOR :

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

PLAN DEPTH : 8,318 SPUD DATE : 12/03/06

EVENT DC: \$1,816,525.01

EVENT CC: \$299,090.00

EVENT TC: \$2,115,615.01

WELL TOTL COST: \$2,115,615

Total frac fluid pumped 436 bbls. N2 was not cut during flush. Opened well to the pit on a 12/64 choke. Turned well over to production.

**RECEIVED****FEB 28 2007****DIV. OF OIL, GAS & MINING**

## FACSIMILE COVER PAGE

**To :** Utah Division of Oil, Gas & Mining  
**Sent :** 3/7/2007 at 9:32:36 AM  
**Subject :** HCU 11-33F

**From :** g  
**Pages :** 2 (including Cover)  
**CONFIDENTIAL**

43-047-37360  
33 10s 20e

RECEIVED

MAR 07 2007

DIV. OF OIL, GAS & MINING



## WELL CHRONOLOGY REPORT

**CONFIDENTIAL****WELL NAME : HCU 11-33F**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1996' FSL 393' FWL SEC 33 T 10S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602707

API # : 43-047-37360

PLAN DEPTH : 8,318

SPUD DATE : 12/03/06

DHC : \$800,500

CWC : \$661,616

AFE TOTAL : \$1,462,116

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$1,816,525.01

EVENT CC : \$299,090.00

EVENT TC : \$2,115,615.01

WELL TOTL COST : \$2,115,615

**REPORT DATE: 03/01/07**

MD : 8,400

TVD : 8,050

DAYS :

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$1,816,525.01

CC : \$299,090.00

TC : \$2,115,615.01

DAILY DETAILS : OPEN WELL ON 12/64 CHOKE UP CSG AFTER FRAC AT 2:30 PM. FCP 2840# PUMPED 3093 BBLS FRAC FLUID. WELL OPENED UP TO PIT ON 12/64 CHOKE, FCP 820# RECOVERED 950 BBLS FRAC FLUID CHANGED TO 18/64 CHOKE AND LEFT FLOWING TO PIT.

**REPORT DATE: 03/02/07**

MD : 8,400

TVD : 8,050

DAYS :

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$1,816,525.01

CC : \$299,090.00

TC : \$2,115,615.01

DAILY DETAILS : FLOW REPORT, WELL FLOWING TO PIT UP CSG ON 18/64 CHOKE, FCP 431#, RECOVERED 1050 BBLS FRAC FLUID, CONTINUE FLOWING WELL TO PIT ON 18/64 CHOKE.

**REPORT DATE: 03/03/07**

MD : 8,400

TVD : 8,050

DAYS :

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$1,816,525.01

CC : \$299,090.00

TC : \$2,115,615.01

DAILY DETAILS : FLOW REPORT, WELL FLOWING TO PIT UP CSG ON 18/64, FCP 1304#, RECOVERED 750 BBLS, RU SALES AND TURN TO SALES.

**REPORT DATE: 03/04/07**

MD : 8,400

TVD : 8,050

DAYS :

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$1,816,525.01

CC : \$299,090.00

TC : \$2,115,615.01

DAILY DETAILS : FLOW REPORT WELL TO SALES 14.5 HRS MADE 889 MCF, FCP 1345, SLP 134, 0 OIL, 110 WTR. 18/64 CHOKE LEFT WELL SAME.

**REPORT DATE: 03/05/07**

MD : 8,400

TVD : 8,050

DAYS :

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$1,816,525.01

CC : \$299,090.00

TC : \$2,115,615.01

DAILY DETAILS : FLOW REPORT WELL TO SALES 24 HRS MADE 1307 MCF, FCP 1307, SLP 132, 0 OIL, 102 WTR. 18/64 CHOKE LEFT WELL SAME.

**REPORT DATE: 03/06/07**

MD : 8,400

TVD : 8,050

DAYS :

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$1,816,525.01

CC : \$299,090.00

TC : \$2,115,615.01

DAILY DETAILS : FLOW REPORT, WELL TO SALES FOR 24 HRS. MADE 1584 MCF, FCP 1255, SLP 118, 0 OIL, 130 WATER, 18/64 CHOKE.

RECEIVED

MAR 07 2007

DIV. OF OIL, GAS &amp; MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address

14000 Quail Springs Pkwy, Ste 600, OKC, OK 73134

3b. Phone No. (include area code)

(405) 749-5237

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 1966' FSL & 393' FWL, NW SW, Sec. 33-10S-20E

BHL: 1995' FSL & 1680' FWL, NE SW, Sec. 33-10S-20E

5. Lease Serial No.

U-28203

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Hill Creek Unit

8. Well Name and No.

HCU 11-33F

9. API Well No.

43-047-37360

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Acidize

☐

Altering Casing

☐

Casing Repair

☐

Change Plans

☐

Convert to Injection

☐

Deepen

☐

Fracture Treat

☐

New Construction

☐

Plug and Abandon

☐

Plug Back

☐

Production (Start/Resume)

☐

Reclamation

☐

Recomplete

☐

Temporarily Abandon

☐

Water Disposal

☐

Water Shut-Off

☐

Well Integrity

☒

Other

Drilling Operations

- 13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

2/5/07 - Ran 81 jts 9-5/8", 36#, J-55, ST&C csg set @ 3479'. Cmt lead w/450 sks HI-Fill V, 11.0 ppg, 3.82 yld. Tail w/250 sks Class G, 15.6 ppg, 1.18 yld.

2/17/07 - Ran 196 jts 5-1/2", 17# M-80, LT&C csg set @ 8316'. Cmt lead w/100 sks HI-Fill V, 11.0 ppg, 3.82 yld. Tail w/625 sks Class G, 13.0 ppg, 1.85 yld. Clean pits, rig released.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Barbara Lester

Title Regulatory Specialist

Signature



Date 3/6/2007

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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MAR 12 2007

DIV. OF OIL, GAS & MINING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

**CONFIDENTIAL**

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address

14000 Quail Springs Pkwy, Ste 600, OKC, OK 73134

3b. Phone No. (include area code)

(405) 749-5237

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 1966' FSL & 393' FWL, NW SW, Sec. 33-10S-20E

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U-28203

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Hill Creek Unit

8. Well Name and No.

HCU 11-33F

9. API Well No.

43-047-37360

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	First Sales
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

2/26/07 - Perf & Frac

3/3/07 - First Sales

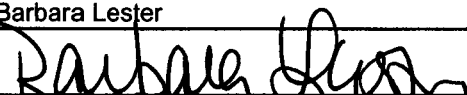
14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Barbara Lester

Title Regulatory Specialist

Signature



Date 3/8/2007

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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MAR 14 2007

DIV. OF OIL, GAS & MINING



28b Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):	31. Formation (Log) Markers
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	

Formation	Top	Bottom	Description, Contents, etc.	Name	Top
					Meas. Depth
				Wasatch Tongue	4138'
				Uteland Limestone	4485'
				Wasatach	4632'
				Chapita Wells	5550'
				Uteland Buttes	6592'
				Mesaverde	7162'

32. Additional remarks (include plugging procedure)

33. Circle enclosed attachments:

- ☒ 1. Electrical/Mechanical Logs (1 full set req'd)     
 2. Geologic Report     
 3. DST Report     
 4. Directional Survey  
 5. Sundry Notice for plugging and cement verification     
 6. Core Analysis     
 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Carla Christian      Title Supervisor, Regulatory Reports  
 Signature Carla Christian      Date April 17, 2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## HCU 11-33F Perforation's & Frac's

**Interval #1**    Mesaverde    8106 - 20  
   8138 - 66        86 holes

Frac w/56,296# 20/40 PR6000 sd., w/295.1 mscf of N2 and 660 bbls of YF12OST.

**Interval #2**    Mesaverde    7944 - 46  
   7976 - 80  
   8011 - 30  
   8060 - 66        66 holes

Frac w/84,326# 20/40 PR6000 sd., w/422.7 mscf of N2 and 901 bbls of YF120ST

**Interval #3**    Mesaverde    7881 - 97        65 holes

Frac w/66,090# 20/40 Ottawa sd., w/221.4 mscf of N2 and 573 bbls of YF120ST

**Interval #4**    Mesaverde/    7143 - 55  
                         Wasatch        7357 - 71        54 holes

Frac w/60,923# 20/40 Ottawa sd., w/202.7 mscf of N2 and 523 bbls of YF115ST

**Interval #5**    Wasatch        5891 - 99  
   5988 - 98        56 holes

Frac w/50,453# 20/40 Ottawa sd., w/189 mscf of N2 and 436 bbls of YF115ST



**Dominion Exploration & Production  
Natural Buttes Field  
Uintah County, Utah**

**HCU 11-33F**

**Section 33, T10S, R20E**

**FINAL WELL REPORT**



# **AS DRILLED**

Prepared for:

## **HCU 11-33F**

### **Dominion Exploration & Production**

on

**Section 33, T10S, R20E**

**Uintah County, Utah**



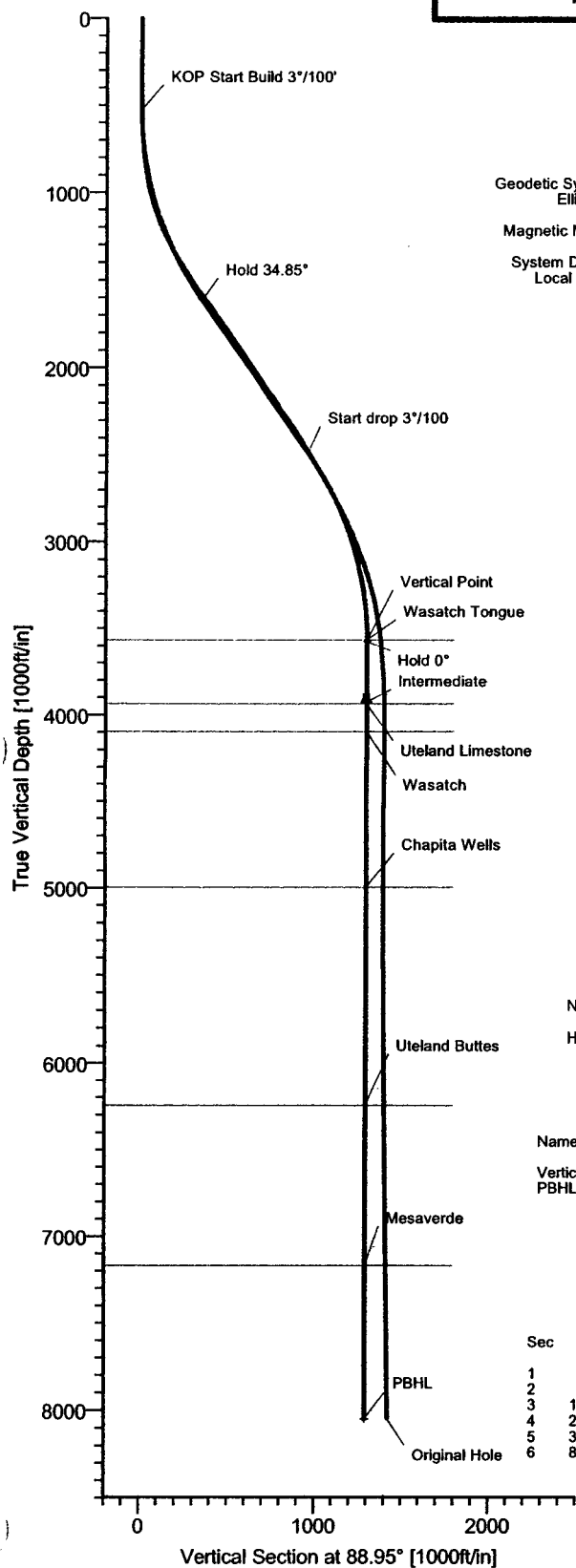
# Dominion Exploration & Production

Field: Uintah County, Utah  
Site: HCU # 11-33F  
Well: HCU 11-33F  
Wellpath: Original Hole  
Plan: Plan #2



Azimuths to True North  
Magnetic North: 11.69°

Magnetic Field  
Strength: 52748nT  
Dip Angle: 65.87°  
Date: 1/16/2007  
Model: igrf2005



## FIELD DETAILS

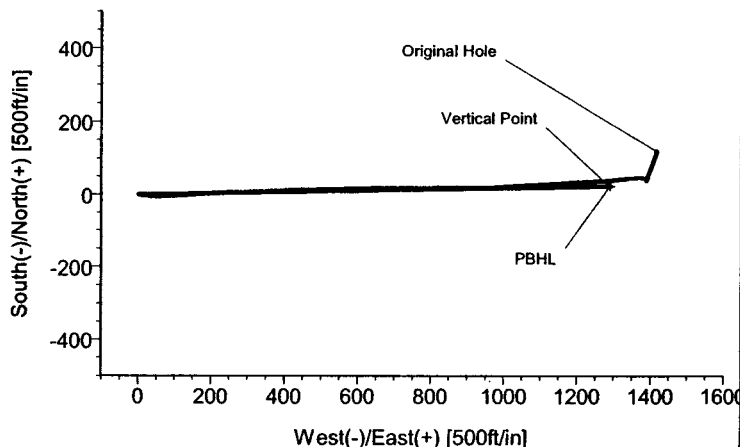
Uintah County, Utah  
Utah - Natural Buttes  
USA

Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igrf2005  
System Datum: Mean Sea Level  
Local North: True North

## SITE DETAILS

HCU # 11-33F  
Sec.33, T10S, R20E

Site Centre Latitude: 39°54'06.760N  
Longitude: 109°40'42.110W  
Ground Level: 5299.00  
Positional Uncertainty: 0.00  
Convergence: 1.17



## WELLPATH DETAILS

### Original Hole

Rig: Patterson 12  
Ref. Datum: Est RKB 5315.00ft  
V.Section Angle: 88.95°  
Origin +N/-S: 0.00  
Origin +E/-W: 0.00  
Starting From TVD: 0.00

## WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
HCU 11-33F	0.00	0.00	7138200.96	2151419.08	39°54'06.760N	109°40'42.110W	N/A

## TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Vertical Point	3578.00	23.57	1290.80	Point
PBHL	8050.00	23.57	1290.80	Point

## FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3565.00	3895.81	Wasatch Tongue
2	3935.00	4265.81	Uteland Limestone
3	4095.00	4425.81	Wasatch
4	4995.00	5325.81	Chapita Wells
5	6245.00	6575.81	Uteland Buttes
6	7170.00	7500.81	Mesaverde

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	88.95	0.00	0.00	0.00	0.00	0.00	0.00	
2	525.00	0.00	88.95	525.00	0.00	0.00	0.00	0.00	0.00	
3	1686.65	34.85	88.95	1616.35	6.25	342.46	3.00	88.95	342.51	
4	2747.19	34.85	88.95	2486.69	17.32	948.35	0.00	0.00	948.51	
5	3908.81	0.00	88.95	3578.00	23.57	1290.80	3.00	180.00	1291.02	Vertical Point
6	8380.81	0.00	88.95	8050.00	23.57	1290.80	0.00	88.95	1291.02	PBHL



# **DIRECTIONAL DRILLING COMPOSITE SURVEY REPORT**

Prepared for:

**HCU 11-33F**

**Dominion Exploration & Production**

on

**Section 33, T10S, R20E**

**Uintah County, Utah**

Report Prepared on November, 2006

WE HEREBY CERTIFY THAT THE DATA CONTAINED IN THIS REPORT FROM 555' FT. TO 6145' FT BY  
OUR DIRECTIONAL SUPERVISOR, REPRESENTS TO THE BEST OF OUR KNOWLEDGE, A TRUE AND ACCURATE SURVEY  
OF THE WELL AT THE TIME THE SURVEY WAS TAKEN.

CERTIFIED BY

2-20-07  
DATE





# **SURVEY REPORT - STANDARD**

Prepared for:

**HCU 11-33F**

**Dominion Exploration & Production**

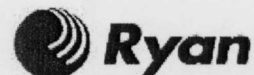
on

**Section 33, T10S, R20E**

**Uintah County, Utah**



# Ryan Energy Technologies Survey Report



Company:	Dominion Exploration & Product	Date:	2/19/2007	Time:	10:16:39	Page:	1
Field:	Uintah County, Utah	Co-ordinate(NE) Reference:	Well: HCU 11-33F, True North				
Site:	HCU # 11-33F	Vertical (TVD) Reference:	Est RKB 5315.0				
Well:	HCU 11-33F	Section (VS) Reference:	Well (0.00N,0.00E,88.95Azi)				
Wellpath:	Original Hole	Survey Calculation Method:	Minimum Curvature Db: Sybase				

Field:	Uintah County, Utah	Map Zone:	Utah, Central Zone
	Utah - Natural Buttes	Coordinate System:	Well Centre
	USA	Geomagnetic Model:	igrf2005
Map System:	US State Plane Coordinate System 1983		
Geo Datum:	GRS 1980		
Sys Datum:	Mean Sea Level		

Site:	HCU # 11-33F					
	Sec.33, T10S, R20E					
Site Position:	From:	Geographic	Northing:	7138200.96 ft	Latitude:	39 54 6.760 N
			Easting:	2151419.08 ft	Longitude:	109 40 42.110 W
Position Uncertainty:		0.00 ft			North Reference:	True
Ground Level:		5299.00 ft			Grid Convergence:	1.17 deg

Well:	HCU 11-33F					Slot Name:	
Well Position:	+N/-S	0.00 ft	Northing:	7138200.96 ft	Latitude:	39 54 6.760 N	
	+E/-W	0.00 ft	Easting:	2151419.08 ft	Longitude:	109 40 42.110 W	
Position Uncertainty:		0.00 ft					

Wellpath:	Original Hole		Drilled From:	Surface	
			Tie-on Depth:	0.00 ft	
Current Datum:	Est RKB		Above System Datum:	Mean Sea Level	
Magnetic Data:	1/16/2007		Declination:	11.69 deg	
Field Strength:	52748 nT		Mag Dip Angle:	65.87 deg	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	ft	ft	ft	deg	
	0.00	0.00	0.00	88.95	

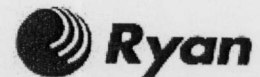
Survey Program for Definitive Wellpath					
Date:	2/19/2007	Validated:	No	Version:	0
Actual From	To	Survey	Toolcode	Tool Name	
ft	ft				
555.00	4916.00	Ryan MWD (555.00-4916.00)	MWD	MWD	
8400.00	8400.00	Survey #3 (8400.00-8400.00)	Projection	Projection	

## Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
555.00	0.50	119.40	554.99	-1.19	2.11	2.09	0.09	0.09	0.00	MWD
648.00	1.50	110.90	647.98	-1.82	3.60	3.57	1.08	1.08	-9.14	MWD
741.00	4.10	99.50	740.86	-2.81	8.02	7.96	2.85	2.80	-12.26	MWD
834.00	7.50	92.50	833.37	-3.62	17.36	17.29	3.73	3.66	-7.53	MWD
932.00	10.80	91.90	930.11	-4.20	32.93	32.85	3.37	3.37	-0.61	MWD
1022.00	14.50	89.40	1017.91	-4.36	52.63	52.55	4.15	4.11	-2.78	MWD
1115.00	18.70	87.60	1107.02	-3.62	79.18	79.10	4.55	4.52	-1.94	MWD
1210.00	22.70	87.30	1195.86	-2.12	112.72	112.67	4.21	4.21	-0.32	MWD
1305.00	26.60	85.30	1282.19	0.49	152.25	152.23	4.20	4.11	-2.11	MWD
1400.00	30.20	86.40	1365.75	3.74	197.31	197.34	3.83	3.79	1.16	MWD
1495.00	32.50	88.20	1446.87	6.04	246.67	246.74	2.61	2.42	1.89	MWD
1590.00	34.70	88.80	1526.00	7.41	299.22	299.30	2.34	2.32	0.63	MWD
1685.00	36.00	87.60	1603.48	9.14	354.15	354.26	1.55	1.37	-1.26	MWD
1780.00	35.30	87.90	1680.68	11.32	409.48	409.62	0.76	-0.74	0.32	MWD
1870.00	34.60	87.90	1754.44	13.21	461.00	461.17	0.78	-0.78	0.00	MWD
1964.00	33.20	88.80	1832.46	14.72	513.40	513.59	1.58	-1.49	0.96	MWD
2027.00	34.30	88.80	1884.85	15.46	548.40	548.59	1.75	1.75	0.00	MWD
2122.00	35.00	88.40	1963.00	16.78	602.39	602.60	0.77	0.74	-0.42	MWD
2217.00	34.70	89.40	2040.96	17.82	656.67	656.88	0.68	-0.32	1.05	MWD
2311.00	34.30	89.40	2118.43	18.38	709.91	710.12	0.43	-0.43	0.00	MWD
2405.00	34.20	89.80	2196.13	18.75	762.81	763.02	0.26	-0.11	0.43	MWD



# Ryan Energy Technologies Survey Report

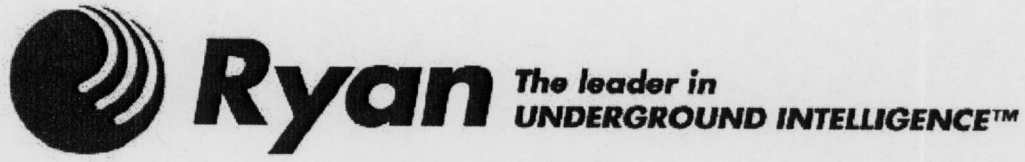


Company: Dominion Exploration & Product  
Field: Uintah County, Utah  
Site: HCU # 11-33F  
Well: HCU 11-33F  
Wellpath: Original Hole

Date: 2/19/2007 Time: 10:16:39 Page: 2  
Co-ordinate(NE) Reference: Well: HCU 11-33F, True North  
Vertical (TVD) Reference: Est RKB 5315.0  
Section (VS) Reference: Well (0.00N,0.00E,88.95Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

## Survey

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2498.00	34.50	89.20	2272.91	19.21	815.28	815.50	0.49	0.32	-0.65	MWD
2593.00	33.50	90.00	2351.67	19.58	868.40	868.61	1.15	-1.05	0.84	MWD
2686.00	31.40	90.10	2430.14	19.54	918.30	918.50	2.26	-2.26	0.11	MWD
2781.00	30.60	87.50	2511.57	20.55	967.21	967.42	1.64	-0.84	-2.74	MWD
2876.00	30.10	86.20	2593.56	23.19	1015.13	1015.39	0.87	-0.53	-1.37	MWD
2970.00	29.40	87.20	2675.17	25.87	1061.70	1061.99	0.91	-0.74	1.06	MWD
3064.00	27.90	87.30	2757.65	28.04	1106.71	1107.04	1.60	-1.60	0.11	MWD
3159.00	26.10	86.50	2842.30	30.36	1149.78	1150.14	1.93	-1.89	-0.84	MWD
3252.00	24.10	84.90	2926.51	33.30	1189.11	1189.52	2.27	-2.15	-1.72	MWD
3347.00	21.80	86.10	3013.99	36.22	1226.04	1226.49	2.47	-2.42	1.26	MWD
3441.00	19.40	87.90	3101.97	37.98	1259.06	1259.54	2.64	-2.55	1.91	MWD
3553.00	16.90	84.50	3208.39	40.22	1293.86	1294.37	2.42	-2.23	-3.04	MWD
3627.00	14.80	83.20	3279.58	42.37	1313.95	1314.50	2.88	-2.84	-1.76	MWD
3721.00	11.10	86.50	3371.17	44.35	1334.91	1335.50	4.01	-3.94	3.51	MWD
3814.00	9.60	85.00	3462.65	45.57	1351.57	1352.18	1.64	-1.61	-1.61	MWD
3909.00	6.40	90.00	3556.72	46.26	1364.76	1365.38	3.44	-3.37	5.26	MWD
4002.00	5.00	93.70	3649.26	46.00	1373.99	1374.60	1.56	-1.51	3.98	MWD
4096.00	4.10	101.20	3742.96	45.08	1381.37	1381.97	1.15	-0.96	7.98	MWD
4191.00	2.20	77.10	3837.82	44.83	1386.48	1387.07	2.40	-2.00	-25.37	MWD
4286.00	0.30	71.00	3932.79	45.32	1388.50	1389.09	2.00	-2.00	-6.42	MWD
4381.00	0.30	138.30	4027.79	45.21	1388.90	1389.49	0.35	0.00	70.84	MWD
4475.00	0.50	170.20	4121.79	44.63	1389.13	1389.71	0.31	0.21	33.94	MWD
4570.00	0.70	180.80	4216.78	43.64	1389.19	1389.76	0.24	0.21	11.16	MWD
4664.00	0.80	197.40	4310.77	42.44	1388.99	1389.53	0.25	0.11	17.66	MWD
4916.00	1.20	198.50	4562.73	38.26	1387.63	1388.09	0.16	0.16	0.44	MWD
6145.00	2.00	20.00	5791.54	46.21	1390.88	1391.49	0.26	0.07	-14.52	SS
8400.00	2.00	20.00	8045.17	120.16	1417.79	1419.75	0.00	0.00	0.00	PROJECTED to TD



# **SURVEY REPORT - GEOGRAPHIC**

Prepared for:

**HCU 11-33F**

**Dominion Exploration & Production**

on

**Section 33, T10S, R20E**

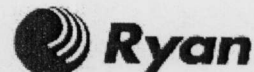
**Uintah County, Utah**





# Ryan Energy Technologies

## Survey Report - Geographic



<b>Company:</b> Dominion Exploration & Product	<b>Date:</b> 2/19/2007	<b>Time:</b> 10:18:07	<b>Page:</b> 1
<b>Field:</b> Uintah County, Utah	<b>Co-ordinate(NE) Reference:</b> Well: HCU 11-33F, True North		
<b>Site:</b> HCU # 11-33F	<b>Vertical (TVD) Reference:</b> Est RKB 5315.0		
<b>Well:</b> HCU 11-33F	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,88.95Azi)		
<b>Wellpath:</b> Original Hole	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

**Field:** Uintah County, Utah  
Utah - Natural Buttes  
USA

**Map System:** US State Plane Coordinate System 1983

**Geo Datum:** GRS 1980

**Sys Datum:** Mean Sea Level

**Map Zone:** Utah, Central Zone

**Coordinate System:** Well Centre

**Geomagnetic Model:** igrf2005

**Site:** HCU # 11-33F

Sec.33, T10S, R20E

<b>Site Position:</b>	<b>Northing:</b> 7138200.96 ft	<b>Latitude:</b> 39 54 6.760 N
<b>From:</b> Geographic	<b>Easting:</b> 2151419.08 ft	<b>Longitude:</b> 109 40 42.110 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True
<b>Ground Level:</b> 5299.00 ft		<b>Grid Convergence:</b> 1.17 deg

**Well:** HCU 11-33F

**Slot Name:**

<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 7138200.96 ft	<b>Latitude:</b> 39 54 6.760 N
+E/-W 0.00 ft	<b>Easting:</b> 2151419.08 ft	<b>Longitude:</b> 109 40 42.110 W
<b>Position Uncertainty:</b> 0.00 ft		

**Wellpath:** Original Hole

<b>Current Datum:</b> Est RKB	<b>Height</b> 5315.00 ft	<b>Drilled From:</b> Surface	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 1/16/2007		<b>Above System Datum:</b> Mean Sea Level	
<b>Field Strength:</b> 52748 nT		<b>Declination:</b> 11.69 deg	
<b>Vertical Section:</b> Depth From (TVD)	+N/-S	<b>Mag Dip Angle:</b> 65.87 deg	<b>Direction</b>
ft	ft	ft	deg
0.00	0.00	0.00	88.95

### Survey Program for Definitive Wellpath

<b>Date:</b> 2/19/2007	<b>Validated:</b> No	<b>Version:</b> 0
<b>Actual From</b> ft	<b>To</b> ft	<b>Survey</b>
555.00	4916.00	Ryan MWD (555.00-4916.00)
8400.00	8400.00	Survey #3 (8400.00-8400.00)
		<b>MWD Projection</b>

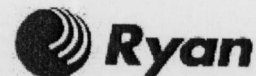
### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
0.00	0.00	0.00	0.00	0.00	0.00	7138200.96	2151419.08	39	54	6.760 N	109	40	42.110 W
555.00	0.50	119.40	554.99	-1.19	2.11	7138199.81	2151421.21	39	54	6.748 N	109	40	42.083 W
648.00	1.50	110.90	647.98	-1.82	3.60	7138199.21	2151422.72	39	54	6.742 N	109	40	42.064 W
741.00	4.10	99.50	740.86	-2.81	8.02	7138198.32	2151427.15	39	54	6.732 N	109	40	42.007 W
834.00	7.50	92.50	833.37	-3.62	17.36	7138197.70	2151436.51	39	54	6.724 N	109	40	41.887 W
932.00	10.80	91.90	930.11	-4.20	32.93	7138197.43	2151452.09	39	54	6.718 N	109	40	41.687 W
1022.00	14.50	89.40	1017.91	-4.36	52.63	7138197.67	2151471.79	39	54	6.717 N	109	40	41.435 W
1115.00	18.70	87.60	1107.02	-3.62	79.18	7138198.96	2151498.32	39	54	6.724 N	109	40	41.094 W
1210.00	22.70	87.30	1195.86	-2.12	112.72	7138201.14	2151531.82	39	54	6.739 N	109	40	40.663 W
1305.00	26.60	85.30	1282.19	0.49	152.25	7138204.55	2151571.29	39	54	6.765 N	109	40	40.156 W
1400.00	30.20	86.40	1365.75	3.74	197.31	7138208.71	2151616.27	39	54	6.797 N	109	40	39.578 W
1495.00	32.50	88.20	1446.87	6.04	246.67	7138212.02	2151665.57	39	54	6.820 N	109	40	38.945 W
1590.00	34.70	88.80	1526.00	7.41	299.22	7138214.46	2151718.09	39	54	6.833 N	109	40	38.270 W
1685.00	36.00	87.60	1603.48	9.14	354.15	7138217.31	2151772.97	39	54	6.850 N	109	40	37.565 W
1780.00	35.30	87.90	1680.68	11.32	409.48	7138220.61	2151828.24	39	54	6.872 N	109	40	36.855 W
1870.00	34.60	87.90	1754.44	13.21	461.00	7138223.55	2151879.72	39	54	6.890 N	109	40	36.194 W
1964.00	33.20	88.80	1832.46	14.72	513.40	7138226.14	2151932.08	39	54	6.905 N	109	40	35.522 W
2027.00	34.30	88.80	1884.85	15.46	548.40	7138227.58	2151967.05	39	54	6.913 N	109	40	35.073 W
2122.00	35.00	88.40	1963.00	16.78	602.39	7138230.00	2152021.01	39	54	6.926 N	109	40	34.380 W
2217.00	34.70	89.40	2040.96	17.82	656.67	7138232.15	2152075.25	39	54	6.936 N	109	40	33.683 W
2311.00	34.30	89.40	2118.43	18.38	709.91	7138233.79	2152128.47	39	54	6.942 N	109	40	33.000 W



# Ryan Energy Technologies

## Survey Report - Geographic



Company: Dominion Exploration & Product  
Field: Uintah County, Utah  
Site: HCU # 11-33F  
Well: HCU 11-33F  
Wellpath: Original Hole

Date: 2/19/2007 Time: 10:18:07 Page: 2  
Co-ordinate(NE) Reference: Well: HCU 11-33F, True North  
Vertical (TVD) Reference: Est RKB 5315.0  
Section (VS) Reference: Well (0.00N,0.00E,88.95Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →		
								Deg	Min	Sec	Deg	Min	Sec
2405.00	34.20	89.80	2196.13	18.75	762.81	7138235.24	2152181.35	39	54	6.945 N	109	40	32.321 W
2498.00	34.50	89.20	2272.91	19.21	815.28	7138236.77	2152233.80	39	54	6.950 N	109	40	31.648 W
2593.00	33.50	90.00	2351.67	19.58	868.40	7138238.22	2152286.90	39	54	6.953 N	109	40	30.966 W
2686.00	31.40	90.10	2430.14	19.54	918.30	7138239.20	2152336.79	39	54	6.953 N	109	40	30.326 W
2781.00	30.60	87.50	2511.57	20.55	967.21	7138241.20	2152385.67	39	54	6.963 N	109	40	29.698 W
2876.00	30.10	86.20	2593.56	23.19	1015.13	7138244.81	2152433.53	39	54	6.989 N	109	40	29.083 W
2970.00	29.40	87.20	2675.17	25.87	1061.70	7138248.45	2152480.03	39	54	7.015 N	109	40	28.486 W
3064.00	27.90	87.30	2757.65	28.04	1106.71	7138251.53	2152524.99	39	54	7.037 N	109	40	27.908 W
3159.00	26.10	86.50	2842.30	30.36	1149.78	7138254.73	2152568.00	39	54	7.060 N	109	40	27.355 W
3252.00	24.10	84.90	2926.51	33.30	1189.11	7138258.47	2152607.27	39	54	7.089 N	109	40	26.851 W
3347.00	21.80	86.10	3013.99	36.22	1226.04	7138262.14	2152644.12	39	54	7.118 N	109	40	26.377 W
3441.00	19.40	87.90	3101.97	37.98	1259.06	7138264.57	2152677.10	39	54	7.135 N	109	40	25.953 W
3553.00	16.90	84.50	3208.39	40.22	1293.86	7138267.53	2152711.85	39	54	7.157 N	109	40	25.506 W
3627.00	14.80	83.20	3279.58	42.37	1313.95	7138270.08	2152731.89	39	54	7.178 N	109	40	25.249 W
3721.00	11.10	86.50	3371.17	44.35	1334.91	7138272.49	2152752.81	39	54	7.198 N	109	40	24.980 W
3814.00	9.60	85.00	3462.65	45.57	1351.57	7138274.05	2152769.44	39	54	7.210 N	109	40	24.766 W
3909.00	6.40	90.00	3556.72	46.26	1364.76	7138275.01	2152782.62	39	54	7.217 N	109	40	24.597 W
4002.00	5.00	93.70	3649.26	46.00	1373.99	7138274.93	2152791.85	39	54	7.214 N	109	40	24.478 W
4096.00	4.10	101.20	3742.96	45.08	1381.37	7138274.17	2152799.25	39	54	7.205 N	109	40	24.383 W
4191.00	2.20	77.10	3837.82	44.83	1386.48	7138274.02	2152804.36	39	54	7.203 N	109	40	24.318 W
4286.00	0.30	71.00	3932.79	45.32	1388.50	7138274.55	2152806.37	39	54	7.207 N	109	40	24.292 W
4381.00	0.30	138.30	4027.79	45.21	1388.90	7138274.45	2152806.77	39	54	7.206 N	109	40	24.287 W
4475.00	0.50	170.20	4121.79	44.63	1389.13	7138273.87	2152807.01	39	54	7.201 N	109	40	24.284 W
4570.00	0.70	180.80	4216.78	43.64	1389.19	7138272.88	2152807.10	39	54	7.191 N	109	40	24.283 W
4664.00	0.80	197.40	4310.77	42.44	1388.99	7138271.68	2152806.92	39	54	7.179 N	109	40	24.286 W
4916.00	1.20	198.50	4562.73	38.26	1387.63	7138267.47	2152805.64	39	54	7.138 N	109	40	24.303 W
6145.00	2.00	20.00	5791.54	46.21	1390.88	7138275.48	2152808.73	39	54	7.216 N	109	40	24.261 W
8400.00	2.00	20.00	8045.17	120.16	1417.79	7138349.97	2152834.13	39	54	7.947 N	109	40	23.916 W

**Division of Oil, Gas and Mining**  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**7/1/2007**

**FROM: (Old Operator):**

N1095-Dominion Exploration & Production, Inc  
 14000 Quail Springs Parkway, Suite 600  
 Oklahoma City, OK 73134

Phone: 1 (405) 749-1300

**TO: ( New Operator):**

N2615-XTO Energy Inc  
 810 Houston St  
 Fort Worth, TX 76102

Phone: 1 (817) 870-2800

CA No.				Unit:		HILL CREEK		
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/6/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/6/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/6/2007
- a. Is the new operator registered in the State of Utah:                      Business Number: 5655506-0143
- b. If **NO**, the operator was contacted on:
- a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on:
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on:
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 9/27/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/27/2007
- Bond information entered in RBDMS on: 9/27/2007
- Fee/State wells attached to bond in RBDMS on: 9/27/2007
- Injection Projects to new operator in RBDMS on: 9/27/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: 9/27/2007

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000138
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 104312762
- b. The **FORMER** operator has requested a release of liability from their bond on: 1/23/2008

The Division sent response by letter on:                     

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: XTO Energy Inc. <i>N2615</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 810 Houston Street CITY Fort Worth STATE TX ZIP 76102		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		8. WELL NAME and NUMBER: SEE ATTACHED
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: SEE ATTACHED
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
Effective July 1, 2007, XTO Energy Inc. has purchased the wells listed on the attachment from:

Dominion Exploration & Production, Inc.  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

*N1095*

*James D. Abercrombie*  
James D. Abercrombie  
Sr. Vice President, General Manager - Western Business Unit  
*(405) 749-1300*

Please be advised that XTO Energy Inc. is considered to be the operator on the attached list and is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands. Bond coverage is provided by Nationwide BLM Bond #104312750 and Department of Natural Resources Bond #104312762.

NAME (PLEASE PRINT) <u>Edwin S. Ryan, Jr.</u>	TITLE <u>Sr. Vice President - Land Administration</u>
SIGNATURE <i>Edwin S. Ryan, Jr.</i>	DATE <u>7/31/2007</u>

(This space for State use only)

APPROVED *9127107*  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED  
AUG 06 2007  
DIV. OF OIL, GAS & MINING



N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304731522	FEDERAL 1-29	SWNW	29	100S	200E	U-28203	12829	Federal	GW	P
4304731601	HILLCREEK FED 1-30	NWSW	30	100S	200E	U-30693	12829	Federal	GW	P
4304731675	HILL CREEK FED 1-27	SEW	27	100S	200E	U-29784	12829	Federal	GW	P
4304733671	HCU 1-28F	NENE	28	100S	200E	14-20-H62-4783	12829	Indian	GW	S
4304733672	HCU 1-29F	NENE	29	100S	200E	U-28203	12829	Federal	GW	P
4304733673	HCU 2-30F	NWNE	30	100S	200E	UTU-29784	12829	Federal	GW	P
4304733688	HCU 3-28F	NENW	28	100S	200E	U-28203	12829	Federal	GW	P
4304733689	HCU 3-29F	NENW	29	100S	200E	U-28203	12829	Federal	GW	P
4304733713	HCU 3-30F	NWNW	30	100S	200E	UTU-30693	12829	Federal	GW	P
4304733835	HCU 5-30F	SWNW	30	100S	200E	U-30693	12829	Federal	GW	P
4304733836	HCU 6-30F	SEW	30	100S	200E	U-30693	12829	Federal	GW	P
4304733964	HCU 8-30F	SENE	30	100S	200E	UTU-29784	12829	Federal	GW	P
4304733965	HCU 11-30F	NESW	30	100S	200E	U-30693	12829	Federal	GW	P
4304733966	HCU 13-30F	SWSW	30	100S	200E	U-30693	12829	Federal	GW	P
4304734045	HCU 5-28F	SWNW	28	100S	200E	U-28203	12829	Federal	GW	P
4304734046	HCU 7-29F	SWNE	29	100S	200E	U-28203	12829	Federal	GW	P
4304734223	HCU 9-29F	NESE	29	100S	200E	U-28203	12829	Federal	GW	P
4304734298	HCU 3-31F	NWNW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734299	HCU 5-31F	SWNW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734300	HCU 7-31F	SEW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734316	HCU 2-27F	NWNE	27	100S	200E	UTU-79130	12829	Federal	GW	P
4304734351	HCU 8-27F	SENE	27	100S	200E	UTU-79130	12829	Federal	GW	P
4304734352	HCU 11-31F	NWSW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734353	HCU 13-31F	SWSW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734853	HCU 1-33F	NENE	33	100S	200E	14-20-H62-4782	12829	Indian	GW	P
4304734854	HCU 3-34F	NENW	34	100S	200E	U-28203	12829	Federal	GW	P
4304734913	HCU 1-27F	NENE	27	100S	200E	U-79130	12829	Federal	GW	P
4304734914	HCU 3-27F	NENW	27	100S	200E	U-79130	12829	Federal	GW	P
4304734915	HCU 7-27F	SWNE	27	100S	200E	U-79130	12829	Federal	GW	S
4304734916	HCU 10-27F	NWSE	27	100S	200E	U-79130	12829	Federal	GW	P
4304734917	HCU 14-30F	SWSW	30	100S	200E	U-30693	12829	Federal	GW	P
4304734918	HCU 15-30F	SWSE	30	100S	200E	U-29784	12829	Federal	GW	P
4304734919	HCU 2-31F	NWNE	31	100S	200E	U-30693	12829	Federal	GW	P
4304734920	HCU 6-31F	SWNW	31	100S	200E	U-30693	12829	Federal	GW	P
4304734921	HCU 4-31F	NWNW	31	100S	200E	U-30693	12829	Federal	GW	P
4304735130	HCU 11-27F	NESW	27	100S	200E	U-29784	12829	Federal	GW	P
4304735131	HCU 2-29F	NWNE	29	100S	200E	U-28203	12829	Federal	GW	P
4304735132	HCU 9-30F	NESE	30	100S	200E	U-29784	12829	Federal	GW	P
4304735133	HCU 10-30F	NWSE	30	100S	200E	U-29784	12829	Federal	GW	P
4304735134	HCU 1-31F	NENE	31	100S	200E	U-36903	12829	Federal	GW	P
4304735135	HCU 12-31F	NWSW	31	100S	200E	U-30693	12829	Federal	GW	P
4304735137	HCU 2-33F	NENE	33	100S	200E	U-28203	12829	Federal	GW	P
4304735139	HCU 5-34F	NENW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735154	HCU 13-27F	NESW	27	100S	200E	U-29784	12829	Federal	GW	P
4304735230	HCU 8-33F	SENE	33	100S	200E	14-20-H62-4782	12829	Indian	GW	P
4304735307	HCU 6-29F	SEW	29	100S	200E	U-28203	12829	Federal	GW	P
4304735470	HCU 11-29F	NESW	29	100S	200E	U-28203	12829	Federal	GW	P
4304735471	HCU 10-29F	NWSE	29	100S	200E	U-28203	12829	Federal	GW	P

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304735507	HCU 12-29FA	NESW	29	100S	200E	U-28203	12829	Federal	GW	DRL
4304735724	HCU 16-27F	SESE	27	100S	200E	U-79130	12829	Federal	GW	P
4304735725	HCU 9-27F	NESE	27	100S	200E	U-79130	12829	Federal	GW	P
4304735726	HCU 15-27F	SWSE	27	100S	200E	U-79130	12829	Federal	GW	P
4304735727	HCU 9-34F	NESE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735728	HCU 7-34F	SWNE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735832	HCU 9-33F	NESE	33	100S	200E	U-28203	12829	Federal	GW	P
4304735833	HCU 16-33F	SESE	33	100S	200E	U-28203	12829	Federal	GW	P
4304735835	HCU 11-34F	NESW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735836	HCU 12-34F	NWSW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735837	HCU 13-34F	SWSW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735838	HCU 15-34F	SWSE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735875	HCU 14-34F	SWSE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735934	HCU 8-31F	SENE	31	100S	200E	U-30693	12829	Federal	GW	P
4304735935	HCU 10-31F	NWSE	31	100S	200E	U-30693	12829	Federal	GW	P
4304735936	HCU 9-31F	NWSE	31	100S	200E	U-30693	12829	Federal	GW	P
4304735939	HCU 16-28F	SESE	28	100S	200E	U-28203	12829	Federal	GW	P
4304735940	HCU 6-34F	SENE	34	100S	200E	U-28203	12829	Federal	GW	P
4304735996	HCU 16-34F	SESE	34	100S	200E	U-79130	12829	Federal	GW	P
4304736046	HCU 14-31F	SWSW	31	100S	200E	U-30693	12829	Federal	GW	P
4304736251	HCU 16-30F	NESE	30	100S	200E	U-29784	12829	Federal	GW	P
4304736319	HCU 10-28F	NWSE	28	100S	200E	U-28203	12829	Federal	GW	P
4304736320	HCU 13-28F	SWSW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736321	HCU 14-28F	SESW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736437	HCU 5-27F	SWNW	27	100S	200E	U-29784	12829	Federal	GW	DRL
4304736438	HCU 4-27F	SWNW	27	100S	200E	U-29784	12829	Federal	GW	DRL
4304736439	HCU 11-28F	NESW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736440	HCU 5-30F2	SWNW	30	100S	200E	U-30693	12829	Federal	GW	DRL
4304736601	HCU 5-33F	SWNW	33	100S	200E	U-28203	12829	Federal	GW	P
4304736602	HCU 12-33F	NWSW	33	100S	200E	U-28203	12829	Federal	GW	P
4304736603	HCU 6-28F	SENE	28	100S	200E	U-28203	12829	Federal	GW	S
4304736604	HCU 12-28F	NWSW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736685	HCU 13-33F	SWSW	33	100S	200E	U-28203	12829	Federal	GW	P
4304736846	HCU 9-28F	NESE	28	100S	200E	14-20-H62-4781	12829	Indian	GW	P
4304736847	HCU 8-28F	SENE	28	100S	200E	14-20-H62-4783	12829	Indian	GW	P
4304736848	HCU 7-28F	SWNE	28	100S	200E	U-28203	12829	Federal	GW	P
4304736849	HCU 1-34F	NENE	34	100S	200E	U-79130	12829	Federal	GW	P
4304736852	HCU 14-27F	NESW	27	100S	200E	U-29784	12829	Federal	GW	DRL
4304736853	HCU 16-29F	SESE	29	100S	200E	U-28203	12829	Federal	GW	P
4304737060	HCU 4-33F	NWNW	33	100S	200E	U-28203	12829	Federal	GW	P
4304737202	HCU 6-33F	SENE	33	100S	200E	U-28203	12829	Federal	GW	P
4304737203	HCU 3-33F	NWNE	33	100S	200E	U-28203	12829	Federal	OW	P
4304737204	HCU 15-28F	NWNE	33	100S	200E	14-20-H62-4781	12829	Indian	OW	P
4304737284	HCU 7-30F	SENE	30	100S	200E	U-29784	99999	Federal	OW	DRL
4304737340	HCU 5-29F	SWNW	29	100S	200E	U-28203	12829	Federal	GW	P
4304737360	HCU 11-33F	NWSW	33	100S	200E	U-28203	12829	Federal	GW	P
4304737424	HCU 12-27F	NESW	27	100S	200E	U-29784	12829	Federal	OW	DRL
4304737425	HCU 14-29F	SWSW	29	100S	200E	U-28203	12829	Federal	GW	P

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304737426	HCU 13-29F	SWSW	29	100S	200E	U-28203	12829	Federal	GW	P
4304737427	HCU 8-29F	NESE	29	100S	200E	U-28203	12829	Federal	GW	P
4304737445	HCU 8-34F	SENE	34	100S	200E	U-79130	12829	Federal	OW	S
4304737446	HCU 2-34F	NWNE	34	100S	200E	U-79130	12829	Federal	OW	DRL
4304737447	HCU 7-33F	SENE	33	100S	200E	U-28203	12829	Federal	OW	DRL
4304737570	HCU 10-33F	NWSE	33	100S	200E	14-20-H62-4782	12829	Indian	GW	P
4304737749	HCU 4-28F	NENW	28	100S	200E	U-28203	99999	Federal	GW	DRL
4304737750	HCU 14-33F	SWSE	33	100S	200E	U-028203	12829	Federal	GW	DRL
4304731560	HILL CREEK ST 1-32	SENE	32	100S	200E	ML-22313	12829	State	GW	P
4304734852	HCU 4-32F	NWNW	32	100S	200E	ML-22313-2	12829	State	GW	P
4304735136	HCU 5-32F	SWNW	32	100S	200E	ML-22313-2	12829	State	GW	P
4304735870	HCU 13-32F	NESE	31	100S	200E	ML-22313-2		State	GW	LA
4304735871	HCU 12-32F	NESE	31	100S	200E	ML-22313-2		State	GW	LA
4304735872	HCU 14-32F	SESW	32	100S	200E	ML-22313-2	12829	State	GW	P
4304735873	HCU 3-32F	NENW	32	100S	200E	ML-22313-2	12829	State	GW	DRL
4304735874	HCU 11-32F	SENE	32	100S	200E	ML-22313-2	12829	State	D	PA
4304736322	HCU 16-32F	SESE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736323	HCU 9-32F	NESE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736324	HCU 8-32F	SENE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736441	HCU 1-32F2	NENE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736684	HCU 7-32F	SENE	32	100S	200E	ML-22313-2	12829	State	GW	P



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3180  
UT-922

Dominion Exploration & Production, Inc.  
Attn: James D. Abercrombie  
14000 Quail Springs Parkway, #600  
Oklahoma City, OK 73134-2600

August 10, 2007

Re: Hill Creek Unit  
Uintah County, Utah

Gentlemen:

On August 8, 2007, we received an indenture dated June 30, 2007, whereby Dominion Exploration & Production, Inc. resigned as Unit Operator and XTO Energy Inc. was designated as Successor Unit Operator for the Hill Creek Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 15, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Hill Creek Unit Agreement.

Your statewide oil and gas Bond No. UTB000138 will be used to cover all operations within the River Bend Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

*/s/ Greg J. Noble*

Greg J. Noble  
Acting Chief, Branch of Fluid Minerals

Enclosure

RECEIVED

AUG 16 2007

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-28203
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>7. UNIT or CA AGREEMENT NAME:</b> HILL CREEK
<b>3. ADDRESS OF OPERATOR:</b> PO Box 6501, Englewood, CO, 80155		<b>8. WELL NAME and NUMBER:</b> HCU 11-33F
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1996 FSL 0393 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 33 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047373600000
<b>PHONE NUMBER:</b> 303 397-3727 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/21/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center;">           XTO Energy Inc. performed an acid treatment on this well per the attached summary report.         </div> <div style="text-align: right; margin-top: 20px;"> <b>Accepted by the            Utah Division of            Oil, Gas and Mining            FOR RECORD ONLY            December 10, 2013</b> </div>		
<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 303-397-3736	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/9/2013	

## **Hill Creek Unit 11-33F**

**11/11/2013:** MIRU SLU. RIH w/JDC fishing t/s. Tgd @ SN. POH. Rec IPS dual pad plngr. RIH w/JDC fishing t/s. Tgd @ SN. POH. Rec PCS BHBS w/SV. SWIFPBU. RDMO SLU.

**11/14/2013:** MIRU acid crew. Pmp 250 gal 15% HCl ac w/adds & 35 bbl TFW. Pmp 500 gal 15% HCl ac w/adds & 95 bbls TFW. RDMO acid crew.

**11/15/2013:** MIRU SWU. RU JDC fishing t/s & RIH. Tgd @ SN. POH. Rec IPS single pad plngr. RU swb t/s & RIH. BFL @ 6,700' FS. S. 0 BO, 39 BW, 12 runs (8 hrs). FFL @ 7,100' FS. SITP 0 psig. SICP 315 psig.

**11/18/2013:** RU swb t/s & RIH. BFL @ 7,000' FS. S. 0 BO, 16 BW, 12 runs (8 hrs). FFL @ 7,800' FS. Well KO flwg. SITP 290 psig. SICP 300 psig. Well logged off after 1 run. SWI & SDFN.

**11/19/2013:** RU swb t/s & RIH. BFL @ 7,000' FS. S. 0 BO, 19 BW, 13 runs (10 hrs). FFL @ 7,800' FS. Well KO flwg. SITP 200 psig. SICP 260 psig. Well logged off after 3 runs. SWI & SDFN.

**11/20/2013:** RU swb t/s & RIH. BFL @ 7,000' FS. S. 0 BO, 14 BW, 6 runs (5 hrs). FFL @ 7,600' FS. Well KO flwg. SITP 200 psig. SICP 260 psig. Well logged off after 4 runs. RDMO SWU.

**11/21/2013:** RU swb t/s & RIH. BFL @ 7,500' FS. S. 0 BO, 2 BW, 1 run (3 hrs). FFL @ 7,500' FS. Well KO flwg. SITP 240 psig. SICP 290 psig. Dropd same IPS bar stk plngr & SWI for 60". Cycld plngr to surf & RWTP 11/21/2013. RDMO SWU.

=====Hill Creek Unit 11-33F=====

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-28203
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>7. UNIT or CA AGREEMENT NAME:</b> HILL CREEK
<b>3. ADDRESS OF OPERATOR:</b> PO Box 6501, Englewood, CO, 80155		<b>8. WELL NAME and NUMBER:</b> HCU 11-33F
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1996 FSL 0393 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 33 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047373600000
<b>PHONE NUMBER:</b> 303 397-3727 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/20/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. XTO Energy Inc. performed an Acid Treatment on this well per the attached summary report.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> August 03, 2015		
<b>NAME (PLEASE PRINT)</b> Tiffani Spinelli-Genovese	<b>PHONE NUMBER</b> 303 397-3677	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/31/2015	

## **Hill Creek Unit 11-33F**

**7/8/2015:** MIRU Production Logging Services SLU. RIH w/fish tls to SN. POH rec plngr. RIH to SN. POH rec BHBS w/SV. RU RIH w/ tbg broach to SN. POH. No ti spots. RU RIH w/ BB. Tgd fill @ 8,153' POH (13' perms covered). Left plngr equip out of well, wait on ac job. RWTP. RDMO SLU.

**7/14/2015:** MIRU C&S acid pmp truck. NU hd lines to tbg & csg mstr vlvs. Tstd to 1,000 psig. Tstd gd. Pmpd 500 gal 15% HCL ac dwn csg. Pmpd 250 gal 15% HCL ac dwn tbg. SWI 30". Pmpd 20 bbl TFW dwn tbg. Pmpd 20 bbl TFW w/H2S chem dwn csg. ND hd lines. SWI & SDFN. RDMO ac trk.

**7/15/2015:** MIRU SWU. RU & RIH w/swb tl's. Swab 2 run's, ( 1.5 hr ). Swbd well dry. Dropd BHBS w/SV, Contd swbg. Swab 5 run's, ( 3 hr's ). SWI & SDFN.

**7/16/2015:** RU & RIH w/swb tl's. Swab 2 run's, (1.5 hr ). Well KO flwg. Dropd plng. Attempt to cycle plng to tk w/no succ. Contd swbg. Swab 1 run, (1 hr ). Well KO flwg. Recd plng. Dropd same plng. SWI 50". Attempt to cycle plng to surf sales w/no succ. RIH w/swb tl's. Swab 2 run's, (1 hr ), Plng did not return to surf after swb run. SWIFPBU. SDFN.

**7/17/2015:** RU & RH w/ fishing tl's. Recd plng & BHBS w/SV. Inspec BHBS w/SV, RIH w/swb tl's. Swab 2 run's, (1.5 hr ). Well KO flwg. Redropd BHBS w/SV & plng. Attempt to cycle plng to tk w/no succ. SWIFPBU. RDMO SWU.

**7/20/2015:** MIRU SWU. RU & RIH w/swb tl's. Swab 2 BW, 1 run's, ( 1 hr ). Well KO flwg. Recd plng. Dropd same plng. Cycle plng to surf & RWTP, (7/20/2015.) RDMO SWU.

=====Hill Creek Unit 11-33F=====